A Complete Bibliography of Publications in *Contemporary Physics*

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[2365] Professor Chris Linton. *A First Course in Continuum Mechanics*, by O. Gonzalez and A. Stuart, Scope: textbook. Level: graduate and advanced undergraduate. *Contemporary Physics*, 51(3):277, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2366] Professor Peter R. Hobson. *Electromagnetic Interactions and Hadronic Structure*, edited by F. Close, S. Donnachie and G. Shore, Scope: reference. Level: graduate students and researchers in the field of particle physics. *Contemporary Physics*, 51(3):277–278, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2369] Professor Stig Stenholm. *Quantum Field Theory of Non-equilibrium States*, by J. Rammer, Scope: monograph. Level: graduate research. *Contemporary Physics*, 51(3):280, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2371] Professor David Matravers. *Entangled World — The Fascination of Quantum Information and Computation*, edited by J. Audretsch (translator R. Ehrlich), Scope: popular science. Level: undergraduate with many parts for a general reader. *Contemporary Physics*, 51(3):281–282, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2374] Dr. G. Barton. *Angular Momentum in Quantum Physics*, by L. C. Biedenharn and J. D. Louck, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(3):283–284, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2376] Professor K. Alan Shore. *Monsoon Dynamics*, edited by J. Lighthill and R. Pearce, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(3):285, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2377] Professor K. Alan Shore. *Introduction to Nanoelectronics*, by V. V. Mitin, V. A. Kochelap and M. A. Stroscio, Scope: textbook. Level: undergraduate and graduate. *Contemporary Physics*, 51(3):285–286, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2379] Peter V. E. McClintock. *Cosmic Perspectives*, edited by S. K. Biswas, D. C. V. Mallik and C. V. Vishveshwara, Scope: review. Level: general reader. *Contemporary Physics*, 51(3):287, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2380] Dr. J. Rogel-Salazar. *The Sun: A User's Manual*, By C. Vita-Finzi, Scope: popular science. Level: general public. *Contemporary Physics*, 51(3):287–288, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2385] Professor Mario Bertolotti. *Geometrical and Trigonometric Optics*, by E. L. Dereniak and T. D. Dereniak, Scope: textbook. Level: students. *Contemporary Physics*, 51(4):365, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2386] Professor Mario Bertolotti. *Terahertz Spectroscopy: Principles and Applications*, edited by S. L. Dexheimer, Scope: textbook. Level: beginners. *Contemporary Physics*, 51(4):366, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2387] Professor Barrie W. Jones. *Strategies of Life Detection*, edited by O. Botta, J. L. Bada, J. Gómez-Elvira, E. Javaux, F. Selsis and R Summons, Scope: workshop papers. Level: postgraduates/specialists/advanced hobbyists. *Contemporary Physics*, 51(4):366–367, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2388] Dr. Manuel Vogel. *Handbook of Charged Particle Optics*, 2nd edition, edited by J. Orloff, Scope: handbook/reference. Level: experts/advanced students. *Contemporary Physics*, 51(4):367, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2389] Professor J. R. Sambles. *Aperiodic Structures in Condensed Matter*, by E. M. Barber, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(4):367–369, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2390] Professor Eric Sheldon. *Nuclear and Particle Physics: An Introduction*, 2nd edition, by B. R. Martin, Scope: textbook. Level: advanced undergraduate, postgraduate and specialist. *Contemporary Physics*, 51(4): 369–370, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2391] Dr. J. Rogel-Salazar. *Classical Mechanics and Relativity*, by H. J. W. Müller-Kirsten, Scope: introductory. Level: undergraduate. *Contemporary Physics*, 51(4):370–371, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2392] Professor G. W. Gibbons. *Antimatter*, by F. Close, Scope: popular account. Level: general readership. *Contemporary Physics*, 51(4):371–372, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2393] Professor N. Riley. *The Detonation Phenomenon*, by J. H. S. Lee, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(4):372–373,

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[2394] Dr. A. H. Harker. *Physics and Applications of Negative Refractive Index Materials*, by S. Anantha Ramakrishna and T. M. Grzegorczyk, Scope: introduction/reference. Level: newcomer to the field and above. *Contemporary Physics*, 51(4):373–374, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:ATM

[2395] Assistant Professor Nikolaos E. Myridis. *Advanced Tomographic Methods in Materials Research and Engineering*, edited by J. Banhart, Scope: monograph. Level: undergraduate, postgraduate and postdoctoral workers. *Contemporary Physics*, 51(4):374, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kolosov:2010:BBM

[2396] Dr. Oleg Kolosov. *Biophotonics: Biological and Medical Physics*, Biomedical Engineering, edited by L. Pavesi and P. M. Fauchet, Scope: textbook. Level: graduate students in final year to academics. *Contemporary Physics*, 51(4):375, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2397] Professor Peter Kalmus. *Playing with Planets*, by Gerard 't Hooft, Scope: popular science. Level: general reader. *Contemporary Physics*, 51(4): 375–376, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2398] Professor Stig Stenholm. *A Group-Theoretical Approach to Quantum Optics*, by A. B. Klimov and S. M. Chumakov, Scope: monograph. Level: advanced lecturer or researcher. *Contemporary Physics*, 51(4): 376–377, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:QCM

[2399] Professor Stig Stenholm. *Quantum Computing without Magic*, by Zdzislaw Meglicki, Scope: textbook. Level: researchers and advanced students. *Contemporary Physics*, 51(4):377–378, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:IPC

[2400] Professor Stig Stenholm. *Information*, Physics and Computation, by Marc Mézard and Andrea Montanari, Scope: monograph. Level: specialist researcher. *Contemporary Physics*, 51(4):378, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:ACM

[2401] Professor Stig Stenholm. *Advanced Condensed Matter Physics*, by L. M. Sander, Scope: textbook. Level: advanced undergraduate and beginning graduate. *Contemporary Physics*, 51(4):378–379, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2010:QTI

[2402] Professor D. G. C. Jones. *Quantum Transport. Introduction to Nanoscience*, by Y. V. Nazarov and Y. M. Blanter, Scope: general introduction. Level: postgraduate students and physicists. *Contemporary Physics*, 51(4):379–380, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2403] Professor S. J. Blundell. *A Paradigm Called Magnetism*, by S. Dattagupta, Scope: general introduction. Level: postgraduate. *Contemporary Physics*, 51(4):380, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2404] Jonathan P. Williams. The astrophysical environment of the solar birthplace. *Contemporary Physics*, 51(5):381–396, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2405] Doreen Stoneham and Marshall Stoneham. Beating the forger: authenticating ceramic antiquities. *Contemporary Physics*, 51(5):397–411, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2406] R. M. L. Evans. Statistical physics of shear flow: a non-equilibrium problem. *Contemporary Physics*, 51(5):413–427, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2407] Derry W. Jones. Sailing: saga and science. *Contemporary Physics*, 51(5): 429–431, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2408] Derry W. Jones. Magnetic mines, molecular models and the mind. *Contemporary Physics*, 51(5):433–437, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2409] Dr. Aneta Stefanovska. *The Biophysical Basis of Excitability*, by H. G. Fereira and M. W. Marshall, Scope: research. Level: postgraduate. *Contemporary Physics*, 51(5):439–440, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sambles:2010:MRS

[2410] Professor J. R. Sambles. *Microstructural Randomness and Scaling in Mechanics of Materials*, by M. Ostoja-Starzewski, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(5):440, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Boyd:2010:LTL

[2411] Professor T. J. M. Boyd. *Let there be Light*, by A. Montwill and A. Breslin, Scope: monograph. Level: general reader, undergraduate, graduate physics students. *Contemporary Physics*, 51(5):440–441, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Carroll:2010:MCA

[2412] Professor John E. Carroll. *Metamaterials: Critique and Alternatives*, by B. A. Munk, Scope: research monograph. Level: masters degree and above. *Contemporary Physics*, 51(5):441–444, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:SVS

[2413] Dr. Manuel Vogel. *Superconductivity — A very short introduction*, by S. Blundell, Scope: scientific essay. Level: interested reader. *Contemporary Physics*, 51(5):444, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Athorne:2010:ATD

[2414] Dr. Chris Athorne. *Algebraic Theory of Differential Equations*, edited by M. A. H. MacCallum and A. V. Mikhailov, Scope: workshop proceedings. Level: postgraduate/research level. *Contemporary Physics*, 51(5): 444–445, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Quenby:2010:FHE

[2415] Professor John J. Quenby. *Foundations of High-Energy Astrophysics*, by M. Vietri, Scope: textbook and reference. Level: postgraduate, advanced undergraduate and specialist. *Contemporary Physics*, 51(5):445–446, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2010:MCF

[2416] Professor Miguel A. F. Sanjuán. *Microscopic Chaos*, Fractals and Transport in Nonequilibrium Statistical Mechanics, Advanced Series in Nonlinear Dynamics, Vol. 24, by R. Klages, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):446–447, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sudbery:2010:PAD

[2417] Dr. Tony Sudbery. *Physics and the Art of Dance: Understanding Movement*, by K. Laws and A. Sugano, photographs by M. Swope and G. Schiavone, Scope: monograph. Level: general reader and undergraduate. *Contemporary Physics*, 51(5):447–448, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2010:ILM

[2418] Professor Miguel A. F. Sanjuán. *An Introduction to Lagrangian Mechanics*, by A. J. Brizard, Scope: textbook. Level: undergraduate and graduate students. *Contemporary Physics*, 51(5):448, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2010:SRS

[2419] Professor Miguel A. F. Sanjuán. *Stochastic Resonance. From Suprathreshold Stochastic Resonance to Stochastic Signal Quantization*, by M. D. McDonnell, N. G. Stocks, C. E. M. Pearce and D. Abbott, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):448–449, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zetie:2010:SBG

[2420] Dr. K. P. Zetie. *Stargazing Basics: Getting Started in Recreational Astronomy*, by P. E. Kinzer, Scope: introductory guide. Level: general reader. *Contemporary Physics*, 51(5):449–450, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2010:SQB

[2421] Professor Mark Fox. *Semiconductor Quantum Bits*, edited by F. Henneberger and O. Benson, Scope: research monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):450, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Solomon:2010:QHE

[2422] Professor Allan Solomon. *Quantum Hall Effects. Field Theoretical Approach and Related Topics*, 2nd ed., by Z. F. Ezawa, Scope: encyclopedic compendium. Level: student and researcher. *Contemporary Physics*, 51 (5):450–451, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:UHD

[2423] Professor Stig Stenholm. *The Universe in a Helium Droplet*, by G. E. Volovik, Scope: monograph. Level: research level. *Contemporary Physics*, 51(5):451–452, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:ALV

[2424] Professor Stig Stenholm. *Astrophysical Lasers*, by V. Letokhov and S. Johansson, Scope: monograph. Level: research level. *Contemporary Physics*, 51(5):452–453, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bohmer:2010:IQE

[2425] Dr. C. Böhmer. *Introduction to Quantum Effects in Gravity*, by V. F. Mukhanov and S. Winitzki, Scope: textbook. Level: undergraduate and graduate students, researchers. *Contemporary Physics*, 51(5):453, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:NVS

[2426] Dr. Manuel Vogel. *Nothing: A Very Short Introduction*, by F. Close. Scope: scientific essay. Level: — interested reader. *Contemporary Physics*, 51(5):453–454, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:RBF

[2427] Assistant Professor Nikolaos E. Myridis. *Radial Basis Functions*, by M. D. Buhmann, Scope: monograph. Level: general audience, mathematics theorists. *Contemporary Physics*, 51(5):454, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Duxbury:2010:JTE

[2428] Professor Geoffrey Duxbury. *The Jahn–Teller Effect*, by I. B. Bersuker, Scope: monograph. Level: advanced/research. *Contemporary Physics*, 51(5):455, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hobson:2010:PHN

[2429] Professor Peter Hobson. *Polarization Holography*, by L. Nikolova and P. S. Ramanujam, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(5):455–456, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Martin:2010:YHP

[2430] Professor Alan Martin. *You are Here: A Portable History of the Universe*, by C. Potter, Scope: plain text. Level: general reader. *Contemporary Physics*, 51(5):456, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lawrie:2010:AQG

[2431] Professor Ian D. Lawrie. *Approaches to Quantum Gravity*, edited by Daniele Oriti, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(5):457, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2010:SCM

[2432] Dr. Matt Probert. *Symmetry and Condensed Matter Physics — A Computational Approach*, by M. El-Batanouny and F. Wooten, Scope: textbook. Level: active researcher at postgraduation and above. *Contemporary Physics*, 51(5):457–458, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:BCE

[2433] Dr. Stephen H. Ashworth. *The Behaviour of Chemical Elements in Stars*, by C. Jascheck and M. Jasheck, Scope: reference work. Level: postgraduate/specialist. *Contemporary Physics*, 51(5):458–459, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:GVS

[2434] Professor Ken Pounds. *Galaxies: A Very Short Introduction*, by J. Gribbin, Scope: monograph. Level: general reader. *Contemporary Physics*, 51(5):459–460, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Matravers:2010:FBB

[2435] Professor David Matravers. *Finding the Big Bang*, edited by P. J. E. Peebles, L. A. Page, Jr. and R. B. Partridge, Scope: history of science. Level: general reader with an interest in cosmology to specialist in history or philosophy of science. *Contemporary Physics*, 51(5):460–463, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2010:BEC

[2436] Dr. J. Rogel-Salazar. *Bose–Einstein Condensation in Dilute Gases*, 2nd ed., by C. J. Pethick and H. Smith. Scope: textbook. Level: advanced undergraduate and postgraduate. *Contemporary Physics*, 51(5):463, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2010:CIN

[2437] Professor R. S. MacKay. *The Correspondence of Isaac Newton*, Volume V, 1709–1713, edited by A. Rupert Hall and L. Tilling, Scope: reference. Level: specialist in history of science. *Contemporary Physics*, 51(5): 463–464, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:SMB

[2438] Professor Peter V. E. McClintock. *Sirius Matters*, by N. Brosch, Scope: monograph. Level: undergraduates, graduate students, amateur astronomers, educated public. *Contemporary Physics*, 51(5):464–465, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2010:ONS

[2439] Professor S. J. Blundell. *Observing the Night Sky with Binoculars*, by S. J. O'Meara, Scope: popular astronomy. Level: general. *Contemporary Physics*, 51(5):465, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Roussev:2010:SSM

[2440] Professor Ilia I. Roussev. *Solar and Stellar Magnetic Activity*, by C. Schrijver and C. Zwaan, Scope: textbook. Level: specialist, postgraduate, graduate and undergraduate. *Contemporary Physics*, 51(5):466,

2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Roussev:2010:CDH

[2441] Professor Ilia I. Roussev. *Cool Discs, Hot Flows: The Varying Faces of Accreting Compact Objects*, edited by M. Axelsson, Scope: conference proceedings. Level: specialist, postgraduate and graduate. *Contemporary Physics*, 51(5):466–467, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2010:APP

[2442] Dr. Robert C. Smith. *Astrophysics Processes: The Physics of Astronomical Phenomena*, by H. Bradt, Scope: textbook. Level: senior undergraduate/beginning postgraduate. *Contemporary Physics*, 51(5):467, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sangoro:2010:PLC

[2443] Joshua R. Sangoro. *Polymers, Liquids and Colloids in Electric Fields*, edited by Y. Tsori and U. Steiner, Scope: textbook. Level: specialist and non-specialist. *Contemporary Physics*, 51(5):467–468, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tiwari:2010:QCI

[2444] Dr. S. C. Tiwari. *From Quantum Cohomology to Integrable Systems*, by M. A. Guest, Scope: textbook. Level: graduate, researchers. *Contemporary Physics*, 51(5):468–469, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Palffy:2010:NEA

[2445] Adriana Pálffy. Nuclear effects in atomic transitions. *Contemporary Physics*, 51(6):471–496, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gerry:2010:POQ

[2446] Christopher C. Gerry and Jihane Mimih. The parity operator in quantum optical metrology. *Contemporary Physics*, 51(6):497–511, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zavrtanik:2010:UHE

[2447] Danilo Zavrtanik. Ultra high energy cosmic rays. *Contemporary Physics*, 51(6):513–529, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:QQ

[2448] P. J. Bussey. Quantum quicksands. *Contemporary Physics*, 51(6):531–534, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:SEL

[2449] Professor Ken Pounds. *Space Enterprise — Living and Working Offworld in the 21st Century*, by Philip R. Harris, Scope: source book. Level: general reader and specialist. *Contemporary Physics*, 51(6):535, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

vanderWeele:2010:LDU

[2450] Professor Ko van der Weele. *The Light/Dark Universe. Light from Galaxies*, Dark Matter and Dark Energy, by J. M. Overduin and P. S. Wesson, Scope: monograph. Level: informed reader interested in astronomy. *Contemporary Physics*, 51(6):535–536, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:PMN

[2451] Professor Stig Stenholm. *Philosophy of Mathematics and Natural Science*, by H. Weyl. Source: monograph. Level. researchers and advanced students. *Contemporary Physics*, 51(6):537–539, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2010:TGF

[2452] Emeritus Professor Derry W. Jones. *Turbulence*, by Giles Foden, Scope: wartime meteorology and fiction. Level: general reader. *Contemporary Physics*, 51(6):539–540, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:FSP

[2453] Dr. Manuel Vogel. *Future Spacecraft Propulsion Systems*, 2nd ed., by P. A. Czysz and C. Bruno, Scope: electric rockets explained, IAC, propulsion space, spacecraft engines. Level: advanced students and experts on the field. *Contemporary Physics*, 51(6):540–541, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vedral:2010:QSM

[2454] Professor Vlatko Vedral. *Quantum Statistical Mechanics*, by W. C. Schieve and L. P. Horwitz, Scope: basic theory, with applications from quantum optics to quantum gravity. Level: researchers and advanced students. *Contemporary Physics*, 51(6):541–542, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:QIO

[2455] Assistant Professor Nikolaos E. Myridis. *Quantum Information*, Oxford Master Series in Physics, by Stephen M. Barnett, Scope: quantum information, quantum computing and the foundations of quantum theory. Level: undergraduate, graduate and postgraduate. *Contemporary Physics*, 51(6):542–543, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wallis:2010:CIK

[2456] Dr. Max Wallis. *Cosmic Imagery: Key Images in the History of Science*, by John D. Barrow, Scope: key concepts. Level: general reader. *Contemporary Physics*, 51(6):543–544, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2010:CSP

[2457] Dr. M. Jamil. *Computer Solutions in Physics: With Applications in Astrophysics, Biophysics, Differential Equations, and Engineering*, by Steve VanWyk, Scope: monograph. Level: undergraduate students. *Contemporary Physics*, 51(6):544–545, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2010:WMS

[2458] Professor M. Bertolotti. *Waves in Metamaterials*, by L. Solymar and E. Shamonina, Scope: textbook. Level: researchers and advanced students. *Contemporary Physics*, 51(6):545–546, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:UMB

[2459] Dr. Peter J. Bussey. *Universe or Multiverse?*, by Bernard Carr, Scope: review. Level: physicists and philosophers advanced undergraduate and above. *Contemporary Physics*, 51(6):546–550, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pierri-Galvao:2010:NPT

[2460] Dr. Monica Pierri-Galvao. *The New Physics: For the Twenty-first Century*, by Gordon Fraser, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 51(6):550–551, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:DSO

[2461] Professor Peter V. E. McClintock. *Dynamics of Self-Organized and Self-Assembled Structures*, by Rashmi C. Desai and Raymond Kapral, Scope: monograph. Level: professional physicists, researchers, Ph.D. students, advanced undergraduates. *Contemporary Physics*, 51(6):551–552, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:MTI

[2462] Dr. Stephen H. Ashworth. *Measured Tones: The Interplay of Physics and Music*, 3rd edition, by Ian Johnston, Scope: monograph. Level: general reader. *Contemporary Physics*, 51(6):552, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:BSA

[2463] Dr. Stephen H. Ashworth. *Building Scientific Apparatus*, 4th edition, by John H. Moore, Christopher C. Davis, Michael A. Coplan and Sandra E. Greer, Scope: reference. Level: anyone using, designing, modifying or specifying scientific apparatus. *Contemporary Physics*, 51(6): 552–553, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2010:FMI

[2464] Dr. Peter R. T. Munro. *Fundamentals of Medical Imaging*, by Paul Suetens, Scope: textbook and reference. Level: undergraduate, graduate and practicing scientist/engineer. *Contemporary Physics*, 51(6): 553–554, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2010:CTP

[2465] Dr. Peter R. T. Munro. *Computed Tomography: From Photon Statistics to Modern Cone-Beam CT*, by Thorsten M. Buzug, Scope: textbook and reference. Level: graduate and practising scientist/engineer. *Contemporary Physics*, 51(6):554–555, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milonni:2010:ENF

[2466] Dr. Peter W. Milonni. *Electronic Noise and Fluctuations in Solids*, by Sh. Kogan, Scope: general reader, postgraduate and specialist. Level: anyone interested in the theory of fluctuation phenomena. *Contemporary Physics*, 51(6):555, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:FEG

[2467] Professor Ken Pounds. *Formation and Evolution of Galaxy Bulges (IAU S245), Proceedings of the IAU Symposia and Colloquia*, edited by Martin Bureau, E. Athanassoula, and Beatriz Barbuy Scope: wide-ranging review. Level: graduate students and active researchers. *Contemporary Physics*, 51(6):556, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2010:SSC

[2468] Dr. Robert C. Smith. Stellar Spectral Classification, by Richard O. Gray and Christopher J. Corbally, Scope: monograph and reference book. Level: advanced undergraduates, postgraduates and specialists. *Contemporary Physics*, 51(6):556–557, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wickramasinghe:2010:IPI

[2469] Professor N. C. Wickramasinghe. An Introduction to the Physics of Interstellar Dust, by E. Krugel, Scope: textbook. Level: workers in the field of interstellar dust. *Contemporary Physics*, 51(6):557, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:VOI

[2470] Dr. Manuel Vogel. In Vivo Optical Imaging of Brain Function, 2nd ed., edited by Ron D. Frostig, Scope: monograph. Level: advanced graduate and postgraduate researchers. *Contemporary Physics*, 51(6):557–558, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:QFL

[2471] Dr. Peter J. Bussey. *The Quantum Frontier: The Large Hadron Collider*, by D. Lincoln, Scope: general interest. Level: general readership, undergraduate. *Contemporary Physics*, 51(6):558–559, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2010:PMM

[2472] Dr. Matt Probert. *Physics Meets Mineralogy: Condensed-Matter Physics in Geosciences*, edited by Hideo Aoki, Yasuhiko Syono and Russell J. Hemley, Scope: geophysicists, mineralogists, condensed matter physicists. Level: graduate level textbook. *Contemporary Physics*, 51(6): 559, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Martin:2010:OLU

[2473] Professor Alan Martin. *Origins of Life in the Universe*, by R. Jastrow and M. Rampino, Scope: illustrated text for non-science students. Level: general reader. *Contemporary Physics*, 51(6):559–560, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:EGT

[2474] Professor Peter V. E. McClintock. *Engineering the Guitar: Theory and Practice*, by Richard Mark French, Scope: monograph. Level: undergraduate physicists and engineers, musicologists, guitar builders and players. *Contemporary Physics*, 51(6):560–561, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:ISP

[2475] Dr. Manuel Vogel. *Introduction to Statistical Physics*, 2nd ed., by Kerson Huang, Scope: textbook. Level: undergraduate students. *Contemporary Physics*, 51(6):561, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:PSD

[2476] Professor Peter V. E. McClintock. *Planetary Systems: Detection, Formation and Habitability of Extrasolar Planets*, by M. Ollivier, T. Encrenaz, F. Roques, F. Selsis and F. Casoli, Scope: monograph. Level: undergraduate and postgraduate physicists and researchers. *Contemporary Physics*, 51(6):561–562, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Foreman:2010:SN

[2477] Matthew R. Foreman. Short notices. *Contemporary Physics*, 51(6):562–563, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anonymous:2010:EB

[2478] Anonymous. Editorial board. *Contemporary Physics*, 51(6):ebi, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Centrella:2011:MBH

[2479] Joan Centrella, John Baker, Bernard Kelly, and James van Meter. Merging black holes. *Contemporary Physics*, 52(1):1–14, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Carter:2011:ATC

[2480] Richard G. Carter. Acceleration technologies for charged particles: an introduction. *Contemporary Physics*, 52(1):15–41, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Eling:2011:GGT

[2481] Christopher Eling, Itzhak Fouxon, and Yaron Oz. Gravity and a geometrisation of turbulence: an intriguing correspondence. *Contemporary Physics*, 52(1):43–54, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nugent:2011:MPT

[2482] Keith A. Nugent. The measurement of phase through the propagation of intensity: an introduction. *Contemporary Physics*, 52(1):55–69, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2011:QAL

[2483] Peter V. E. McClintock. Quantum aspects of life. *Contemporary Physics*, 52(1):71–73, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2011:WOC

[2484] Dr. Manuel Vogel. *Waves in Oceanic and Coastal Waters*, by Leo H. Holthuijsen, Scope: textbook. Level: advanced undergraduate and above. *Contemporary Physics*, 52(1):75, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2011:OPR

[2485] Professor Mario Bertolotti. *Optical Pattern Recognition*, edited by F. T. S. Yu and S. Jutamulia, Scope: review. Level: graduate students and researchers. *Contemporary Physics*, 52(1):75–76, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2011:EDW

[2486] Professor Mario Bertolotti. *The Essence of Dielectric Waveguides*, by C. Yeh and F. Shimabukuro, Scope: overview. Level: researchers and students in optical communications, photonics and applied electromagnetics. *Contemporary Physics*, 52(1):76–77, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2011:ESB

[2487] Dr. Matt Probert. *Electronic Structure: Basic Theory and Practical Methods*, by Richard M. Martin, Scope: graduate level textbook. Level: theoretical materials scientists/condensed matter physicists/computational chemists. *Contemporary Physics*, 52(1):77, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tarleton:2011:ASM

[2488] Dr. Edmund Tarleton. *Applied Solid Mechanics*, by P. Howell, G. Kozyreff and J. Ockendon, Scope: textbook. Level: graduate and advanced undergraduate. *Contemporary Physics*, 52(1):77–79, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2011:IPP

[2489] Dr. M. Jamil. *An Introduction to the Physics of Particle Accelerators*, by Mario Conte and William W. MacKay, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 52(1):79–80, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:QMB

[2490] Dr. Peter J. Bussey. *Quantum Mechanics with Basic Field Theory*, by Bipin R. Desai, Scope: course book. Level: graduate. *Contemporary Physics*, 52(1):80, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2011:MPE

[2491] Professor Michael Belsley. *Mrs. Perkins's Electric Quilt and Other Intriguing Stories of Mathematical Physics*, by Paul J. Nahin, Scope: general. Level: undergraduate. *Contemporary Physics*, 52(1):80–81, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tiwari:2011:HSM

[2492] Dr. S. Tiwari. *Hilbert Space Methods in Quantum Mechanics*, by Werner O. Amrein, Scope: handbook. Level: undergraduate. *Contemporary Physics*, 52(1):81–82, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2011:UOD

[2493] Professor Peter V. E. McClintock. *The Universe — Order Without Design*, by Carlos I. Calle, Scope: monograph. Level: general reader. *Contemporary Physics*, 52(1):82–83, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2011:MMM

[2494] Dr. A. M. Fox. *Magnetism and Magnetic Materials*, by J. M. D. Coey, Scope: handbook. Level: advanced undergraduates, postgraduates and researchers. *Contemporary Physics*, 52(1):83–84, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:DRU

[2495] Dr. Peter J. Bussey. *Decoding Reality: The Universe as Quantum Information*, by Vlatko Vedral, Scope: monograph. Level: general reader. *Contemporary Physics*, 52(1):84–85, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sheldon:2011:AAN

[2496] Professor Eric Sheldon. *Alex's Adventures in Numberland*, by Alex Bellos, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(1):85–86, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milonni:2011:SPP

[2497] Dr. Peter W. Milonni. *Statistical Physics of Particles*, by Mehran Kardar, Scope: textbook. Level: advanced undergraduate and graduate. *Contemporary Physics*, 52(1):86–87, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:QRT

[2498] Dr. Peter J. Bussey. *Quantum Reality: Theory and Philosophy*, by Jonathan Allday, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(1):87, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:PCR

[2499] Assistant Professor Nikolaos E. Myridis. *Perspectives in Computation*, by Robert Geroch, Scope: theory of computation. Level: graduate and advanced undergraduate students, scientists. *Contemporary Physics*, 52 (1):87–88, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salama:2011:GFD

[2500] Dr. Amgad Salama. *Geological Fluid Dynamics: Sub-Surface Flow and Reactions*, by O. M. Phillips, Scope: textbook. Level: graduate. *Contemporary Physics*, 52(1):88–89, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2011:RSS

[2501] Dr. Robert C. Smith. *The Rotation of Sun and Stars*, by J.-P. Rozelot and C. Neiner/*Physics, Formation and Evolution of Rotating Stars*, by A. Maeder, Scope: monograph and reference. Level: postgraduates and specialists/scope: monograph. Level: postgraduates, specialists and advanced undergraduates. *Contemporary Physics*, 52(1):89–91, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2011:MTS

[2502] Dr. Stephen H. Ashworth. *Modern Thermodynamics with Statistical Mechanics*, by Carl S. Helrich, Scope: textbook. Level: advanced undergraduate/postgraduate. *Contemporary Physics*, 52(1):91–92, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stoneham:2011:CNE

[2503] Emeritus Massey Professor Marshall Stoneham. *Chirality at the Nanoscale*, edited by David B. Amabilino, Scope: monograph. Level: graduate student/research scientist. *Contemporary Physics*, 52(1):92–93, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ellis:2011:AST

[2504] Richard Ellis. *Astronomical Spectrographs and Their History*, by John J. Hearnshaw, Scope: monograph. Level: science historians, general scientific, undergraduates. *Contemporary Physics*, 52(1):93, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McFarland:2011:CDS

[2505] John McFarland. *The Cambridge Double Star Atlas*, by J. Mullaney and W. Tirion, Scope: handbook. Level: general reader and specialists. *Contemporary Physics*, 52(1):93–94, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:SFS

[2506] Emeritus Professor Derry W. Jones. *Seeing Further: The Story of Science and the Royal Society*, edited by Bill Bryson, Scope: articles on history, philosophy and a range of science. Level: general reader. *Contemporary Physics*, 52(1):94–95, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2011:INS

[2507] Dr. Manuel Vogel. *Introduction to Nuclear Science*, by J. C. Bryan, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(1): 95–96, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:MWH

[2508] Dr. Peter J. Bussey. *The Many Worlds of Hugh Everett III*, by Peter Byrne, Scope: biography. Level: undergraduate physicist and philosopher and above. *Contemporary Physics*, 52(1):96–97, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Carroll:2011:SOT

[2509] Professor John E. Carroll. *Superstrings and Other Things: A Guide to Physics*, 2nd ed., by Carlos I. Calle, Scope: manual. Level: general scientific reader. *Contemporary Physics*, 52(1):97, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2011:BSP

[2510] Professor Miguel A. F. Sanjuán. *Basics of Statistical Physics*, by Harald J. W. Müller-Kirsten, Scope: textbook, monograph. Level: undergraduate and graduate students. *Contemporary Physics*, 52(1):97–98, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2011:CTP

[2511] Professor Miguel A. F. Sanjuán. *Concepts in Thermal Physics*, 2nd ed., by Stephen J. Blundell and Katherine M. Blundell, Scope: handbook. Level: undergraduate and graduate students. *Contemporary Physics*, 52 (1):98, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:SCC

[2512] Assistant Professor Nikolaos E. Myridis. *Scientific Computing with Case Studies*, by Dianne P. O'Leary, Scope: textbook. Level: undergraduate and early graduate students. *Contemporary Physics*, 52(1):98–99, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salama:2011:UFF

[2513] Dr. Amgad Salama. *Understanding Fluid Flow*, by Grae Worster, Scope: general interest. Level: undergraduate. *Contemporary Physics*, 52(1): 99–100, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Krucken:2011:ISS

[2514] Reiner Krücken. Introduction to shell structure in exotic nuclei. *Contemporary Physics*, 52(2):101–120, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pettinelli:2011:RWT

[2515] Elena Pettinelli, Pier Matteo Barone, Elisabetta Mattei, and Sebastian Emanuel Lauro. Radio wave techniques for non-destructive archaeological investigations. *Contemporary Physics*, 52(2):121–130, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Keeling:2011:EPC

[2516] Jonathan Keeling and Natalia G. Berloff. Exciton–polariton condensation. *Contemporary Physics*, 52(2):131–151, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:DMP

[2517] Assistant Professor Nikolaos E. Myridis. *Discrete Mathematics: Proof*, Structures, and Applications, 3rd edn., by Rowan Garnier and John Taylor, Scope: text-book. Level: undergraduate computer science students. *Contemporary Physics*, 52(2):153, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:MMU

[2518] Assistant Professor Nikolaos E. Myridis. *The Mathematical Mechanic: Using Physical Reasoning to Solve Problems*, by Mark Levi, Scope: handbook. Level: students, scientists, physicists, mathematicians. *Contemporary Physics*, 52(2):154, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:EPD

[2519] D. G. C. Jones. *The Edge of Physics: Dispatches from the Frontiers of Cosmology*, by Anil Ananthaswamy, Scope: synoptic picture of experimental modern astronomy, cosmology and particle physics. Level: general readers, a level and undergraduate physicists, specialists in other fields. *Contemporary Physics*, 52(2):155, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salama:2011:GVP

[2520] Dr. Amgad Salama. *Good Vibrations: The Physics of Music*, by Barry Parker, Scope: textbook. Level: general reader. *Contemporary Physics*,

52(2):155–156, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2011:IRC

[2521] Professor J. Rogel-Salazar. *Interest Rates and Coupon Bonds in Quantum Finance*, by Belal E. Baaquie, Scope: monograph. Level: specialist. *Contemporary Physics*, 52(2):156, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2011:MMF

[2522] Professor S. J. Blundell. *Micromagnetism and the Microstructure of Ferromagnetic Solids*, by Helmut Kronmüller and Manfred Fähnle, Scope: monograph. Level: researcher. *Contemporary Physics*, 52(2):157, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Linton:2011:AMM

[2523] Professor Chris Linton. *Applied Mathematical Methods in Theoretical Physics*, 2nd edn., by Michio Masujima, Scope: reference. Level: undergraduates, postgraduates, engineers. *Contemporary Physics*, 52(2):157–158, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lawrie:2011:QFT

[2524] Professor Ian D. Lawrie. *Quantum Field Theory in Curved Spacetime: Quantized Fields and Gravity*, by L. Parker and D. Toms, Scope: monograph. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 52(2):158–159, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2011:UQF

[2525] Professor Peter V. E. McClintock. *Ultracold Quantum Fields*, by H. T. C. Stoof, K. B. Gubbels and D. B. M. Dickerscheid, Scope: monograph. Level: researchers, postgraduate physicists and senior undergraduates. *Contemporary Physics*, 52(2):159, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McFarland:2011:TOD

[2526] John McFarland. *Theory of Orbit Determination*, by Andrea Milani and Giovanni F. Gronchi, Scope: reference. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(2):160, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Benhamou:2011:PGGa

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[2528] Dr. M. Jamil. *Scientific Computation*, by Gaston H. Gonnet and Ralf Scholl, Scope: monograph. Level: graduate level students. *Contemporary Physics*, 52(2):161–162, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2530] Professor Allan Solomon. *Quantum Measurement and Control*, by H. M. Wiseman and G. J. Milburn, Scope: monograph. Level: postgraduate and researcher. *Contemporary Physics*, 52(2):162–163, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2532] Dr. R. S. Shorter. *Cremona Violins: A Physicist's Quest for Secrets of Stradivari*, by Kameshwar C. Wali, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(2):164, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2536] Professor Vlatko Vedral. *Quantum Processes*, Systems, and Information, by Benjamin Schumacher and Michael Westmoreland, Scope: review. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2): 168, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2537] Dr. A. H. Harker. *Understanding Solid State Physics*, by Sharon Ann Holgate, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 52(2):169, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2538] Dr. D. G. C. Jones. *Semiconductor Devices for High-Speed Optoelectronics*, by Giovanni Ghione, Scope: monograph and review. Level: undergraduate, postgraduate and early career researcher. *Contemporary Physics*, 52(2):169–170, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2541] Dr. Natalie L. Garrett. *Biochemical Applications of Nonlinear Optical Spectroscopy*, edited by Vladislav V. Yakovlev, Scope: edited book. Level: advanced undergraduate, postgraduate and researcher. *Contemporary Physics*, 52(2):171–172, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2543] Assistant Professor Nikolaos E. Myridis. *Linear Partial Differential Equations and Fourier Theory*, by Marcus Pivato, Scope: monograph. Level: students in mathematics and physics, lecturers. *Contemporary Physics*, 52(2):173–174, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2547] Professor J. I. B. Wilson. *Spectroscopy of Low Temperature Plasma*, by V. N. Ochkin translated by S. Kittell, Scope: monograph. Level: researcher. *Contemporary Physics*, 52(2):177, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2548] Emeritus Professor Derry W. Jones. *On Fact and Fraud: Cautionary Tales from the Front Lines of Science*, by David Goodstein, Scope: twentieth century physics history and advice for scientists and administrators. Level: general reader. *Contemporary Physics*, 52(2):178–179, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2558] Tony Sudbery. *Quantum: Einstein, Bohr and the Great Debate About the Nature of Reality*, by Manjit Kumar, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(3):251–254, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2559] Manuel Vogel. *Physics of the Sun: A First Course*, by D. J. Mullan, Scope: monograph. Level: undergraduates. *Contemporary Physics*, 52 (3):254, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2560] Michael Belsley. *Statistical Mechanics: An Elementary Outline*, revised edition, by Lahiri Avijit, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 52(3):254–255, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2561] Jörg Bernhard Götte. *Intermediate Spectral Theory and Quantum Dynamics*, by C. R. de Oliveira, Scope: monograph. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(3):255–256, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2562] Yves Laberge. *Cracking the Einstein Code: Relativity and the Birth of Black Hole Physics*, by F. Melia, Scope: monograph. Level: general readership. *Contemporary Physics*, 52(3):256, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2563] Mark Fox. *Introduction to Nanophotonics*, Sergey V. Gaponenko, Scope: manual. Level: graduate students and researchers. *Contemporary Physics*, 52(3):257, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2564] Peter J. Bussey. *Massive: The Hunt for the God Particle*, by Ian Sample, Scope: general interest. Level: general readership and postgraduate. *Contemporary Physics*, 52(3):257–258, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2565] Peter J. Bussey. *Kinematics: The Lost Origins of Einstein's Relativity*, by Alberto A. Martínez, Scope: biography and reference. Level: general readership, teacher, specialist. *Contemporary Physics*, 52(3):258, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2011:NRA

[2566] M. Jamil. *Nuclear Reactions for Astrophysics: Principles*, Calculation and Applications of Low-Energy Reactions, by Ian J. Thompson and Filomena M. Nunes, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 52(3):259, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2567] Peter R. Hobson. *Fundamentals of Guided-Wave Optoelectronic Devices*, by William S. C. Chang, Scope: reference. Level: graduate level students studying optoelectronic waveguide devices. *Contemporary Physics*, 52(3):

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[2568] K. Alan Shore. *Algorithmic Cryptanalysis*, by Antoine Joux, Scope: handbook/textbook. Level: undergraduate, graduate. *Contemporary Physics*, 52(3):260–261, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2574] D. G. C. Jones. Visions of discovery. *Contemporary Physics*, 52(4): 341–343, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2578] Peter J. Bussey. Physics and poetry. *Contemporary Physics*, 52(4):359–362, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2579] S. Sivakumar. *Quantum Mechanics: Concepts and Applications*, 2nd edn., by Nouredine Zettili, Scope: textbook. Level: undergraduates and advanced students. *Contemporary Physics*, 52(4):363, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2580] J. Rogel-Salazar. *Bose-Condensed Gases at Finite Temperatures*, by Allan Griffin, Tetsuro Nikuni and Eugene Zaremba, Scope: review. Level: graduate and researcher. *Contemporary Physics*, 52(4):364, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2011:EEA

[2581] J. Rogel-Salazar. *Everywhere and Everywhen: Adventures in Physics and Philosophy*, by Nick Huggett, Scope: reference. Level: popular science. *Contemporary Physics*, 52(4):364–365, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2011:GMP

[2582] R. S. Shorter. *Gold Medal Physics: The Science of Sports*, by John Eric Goff, Scope: review. Level: general readership, non-specialists, teachers.

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[2583] Ingemar Bengtsson. *Feynman Motives*, by Matilde Marcolli, Scope: monograph. Level: researcher. *Contemporary Physics*, 52(4):366, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2584] Peter R. T. Munro. *Polarisation: Applications in Remote Sensing*, by Shane Cloude, Scope: reference. Level: graduate and practising scientist/engineer. *Contemporary Physics*, 52(4):366–367, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Briggs:2011:CQA

[2585] Andrew Briggs. *Crafting the Quantum: Arnold Sommerfeld and the Practice of Theory, 1890–1926*, by Suman Seth, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(4):367, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2586] Danilo Zavrtanik. *CP Violation*, 2nd edn., by I. I. Bigi and A. I. Sanda, Scope: monograph. Level: early career researcher. *Contemporary Physics*, 52(4):368, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2587] M. Ogilvie. *Introduction to Statistical Field Theory*, by E. Brézin, Scope: reference. Level: undergraduate. *Contemporary Physics*, 52(4):368–369, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2011:PSJ

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Shorter:2011:LSA

[2589] R. S. Shorter. *Lighter Side of Adaptive Optics*, by Robert K. Tyson, Scope: review. Level: general readership. *Contemporary Physics*, 52 (4):370, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2590] Manuel Vogel. *Handbook of Space Engineering, Archaeology, and Heritage*, edited by A. G. Darrin and B. L. O'Leary, Scope: handbook. Level: experts. *Contemporary Physics*, 52(4):370–371, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2591] Manuel Vogel. *Observational Cosmology*, by S. Serjeant, Scope: monograph. Level: advanced undergraduate students. *Contemporary Physics*, 52(4):371, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2011:NRA

[2592] K. Alan Shore. *Nonlinear Resonance Analysis: Theory*, Computation, Applications, by Elena Kartashova, Scope: research monograph. Level: postgraduate and beyond. *Contemporary Physics*, 52(4):371–372, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2593] Mario Bertolotti. *Turbulence in the Atmosphere*, by John C. Wyngaard, Scope: monograph. Level: postgraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 52(4):372–373, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2594] Peter W. Milonni. *Astrophysics for Physicists*, by Arnab Rai Choudhuri, Scope: monograph. Level: advanced undergraduate, beginning postgraduate. *Contemporary Physics*, 52(4):373–374, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2595] John J. Quenby. *An Introduction to Particle Physics and the Standard Model*, by Robert Mann, Scope: review. Level: undergraduate, postgraduate. *Contemporary Physics*, 52(4):374–377, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2596] Mabrouk Benhamou. *P. G. de Gennes' Impact on Science: Volume II*, edited by Julien Bok, Jacques Prost and Françoise Brochard-Wyart, Scope: review. Level: researchers. *Contemporary Physics*, 52(4):377–378, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2597] M. Jamil. *High Energy Radiation from Black Holes: Gamma Rays, Cosmic Rays, and Neutrinos*, by Charles D. Dermer and Govind Menon, Scope: monograph. Level: graduate students and advanced researchers. *Contemporary Physics*, 52(4):378–379, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2600] Peter J. Bussey. *Judging Edward Teller*, by Istvan Hargittai, Scope: general interest. Level: general readership. *Contemporary Physics*, 52 (4):382–383, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2601] Peter Holland. *The Stability of Matter in Quantum Mechanics*, by E. H. Lieb and R. Seiringer, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 52(4):383–384, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2606] David Bailin. Double beta decay and all that. *Contemporary Physics*, 52(5):475–478, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2607] Amgad Salama. *Hydroclimatology: Perspectives and Applications*, by Marlyn L. Shelton, Scope: reference. Level: undergraduate. *Contemporary Physics*, 52(5):479–480, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2610] Ken Zetie. *A Question and Answer Guide to Astronomy*, by Pierre-Yves Bely, Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 52(5):482, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2611] Lewis Ryder. *Relativity, Gravitation and Cosmology*, by Robert J. A. Lambourne, Scope: review. Level: undergraduate. *Contemporary Physics*, 52(5):482–483, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2612] Peter Kalmus. *Neutrino*, by Frank Close, Scope: review. Level: general readership, undergraduate, postgraduate, teacher, scientist. *Contemporary Physics*, 52(5):483–484, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2613] Manuel Vogel. *Cosmochemistry*, by Harry Y. McSween, Jr. and Gary R. Huss, Scope: monograph. Level: advanced undergraduate students. *Contemporary Physics*, 52(5):484, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2011:SON

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[2615] Peter J. Bussey. *Advanced Modern Physics: Theoretical Foundations*, by John Dirk Walecka, Scope: manual. Level: postgraduate. *Contemporary Physics*, 52(5):485–486, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2616] Peter V. E. McClintock. *Experimental and Computational Techniques in Soft Condensed Matter Physics*, edited by Jeffrey Olafsen, Scope: monograph. Level: researchers and postgraduate physicists. *Contemporary Physics*, 52(5):486, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2617] Mircea Dragoman. *Gravitation: Foundations and Frontiers*, by T. Padmanabhan, Scope: review. Level: early career researcher. *Contempo-*

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[2619] Stig Stenholm. *A Kinetic View of Statistical Physics*, by Pavel L. Krapivsky, Sidney Redner and Eli Ben-Naim, Scope: monograph. Level: advanced undergraduate, postgraduate, researcher. *Contemporary Physics*, 52(5):488, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2620] Eric Sheldon. *Stellar Evolution and Nucleosynthesis*, by Sean G. Ryan and Andrew J. Norton, Scope: review. Level: undergraduate, advanced undergraduate, scientist. *Contemporary Physics*, 52(5):489, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2621] R. Ellis. *An Introduction to the Theory of Stellar Structure and Evolution*, 2nd edn., by Dina Prialnik, Scope: monograph. Level: early career researcher, postgraduate, teacher. *Contemporary Physics*, 52(5): 490, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2623] David Matravers. *Bayesian Logical Data Analysis for the Physical Sciences*, edited by P. C. Gregory, Scope: text book, handbook. Level: postgraduate. *Contemporary Physics*, 52(5):491–492, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2624] Andrew Resnick. *Nanoscopy and Multidimensional Optical Fluorescence Microscopy*, edited by Alberto Diaspro, Scope: edited book, guide, review. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 52(5):492, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2628] K. Alan Shore. *Current-Driven Phenomena in Nanoelectronics*, edited by Tamar Seideman. *Contemporary Physics*, 52(5):494–495, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2629] K. Alan Shore. *Twisted Photons: Application of Light with Orbital Angular Momentum*, edited by Juan P. Torres and Lluis Torner. *Contemporary Physics*, 52(5):495, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2630] Timothy J. Sumner. *Particle Dark Matter*, edited by Gianfranco Bertone. *Contemporary Physics*, 52(5):496, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2632] Ian Thompson. *NIST Handbook of Mathematical Functions*, edited by Frank W. J. Olver, Daniel W. Lozier, Ronald F. Boisvert, Charles W. Clark. *Contemporary Physics*, 52(5):497–498, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2633] Simon Redfern. *Elementary Scattering Theory For X-ray and Neutron Users*, by D. S. Sivia. *Contemporary Physics*, 52(5):498, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2634] J. Rogel-Salazar. *Finitary Probabilistic Methods in Econophysics*, by Ubaldo Garibaldi and Enrico Scalas. *Contemporary Physics*, 52(5):499, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2635] Yves Laberge. *An Illustrated Guide to Relativity*, by Tatsu Takeuchi. *Contemporary Physics*, 52(5):499–500, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2637] Giovanni Volpe. *The Inverted Bowl: Introductory Accounts of the Universe and its Life*, by George H. A. Cole. *Contemporary Physics*, 52 (5):501, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2644] Peter V. E. McClintock. Essay review: *Revolutions that made the Earth*, by T. Lenton and A. Watson. ISBN 978-0-19-958704-9, Scope: monograph. Level: general reader with a science education. *Contemporary Physics*, 52(6):591–593, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2645] Tony Sudbery. *The Amazing Story of Quantum Mechanics*, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(6): 595, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2646] Manuel Vogel. *Fusion: An Introduction to the Physics and Technology of Magnetic Confinement Fusion*, 2nd edn., by W. M. Stacey, Scope: textbook. Level: advanced undergraduate students. *Contemporary Physics*, 52(6):595–596, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2647] Nikolaos E. Myridis. *At the Leading Edge: The ATLAS and CMS LHC Experiments*, edited by Dan Green, Scope: reference. Level: physicists, graduates in particle physics, engineers. *Contemporary Physics*, 52(6):596–597, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2648] Ingemar Bengtsson. *Classical Measurements in Curved Space–Times*, by Fernando de Felice, Scope: monograph. Level: early career researcher, researcher. *Contemporary Physics*, 52(6):597, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2649] Nikolaos E. Myridis. *Numerical Relativity: Solving Einstein's Equations on the Computer*, by Th.W. Baumgarte and S. L. Shapiro, Scope: textbook. Level: advanced undergraduates, researchers, teachers, specialists, scientists. *Contemporary Physics*, 52(6):598–599, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2650] Ken Zetie. *Michael Faraday: A Very Short Introduction*, by Frank A. J. L. James, Scope: biography, general interest. Level: general readership, non-specialists, teacher. *Contemporary Physics*, 52(6):599, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2651] K. Pounds. *Coevolution of Black Holes and Galaxies*, edited by Luis C. Ho, Scope: conference proceedings. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 52(6):599–600, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2652] Alan Phelps. *Complex and Dusty Plasmas: From Laboratory to Space*, edited by Vladimir E. Fortov and Gregor E. Morfill, Scope: edited monograph. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 52(6):600–601, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2653] Nikolaos E. Myridis. *Numerical Solution of Hyperbolic Partial Differential Equations*, by John A. Trangenstein, Scope: review. Level: textbook for engineering students; engineering researchers, computer scientists. *Contemporary Physics*, 52(6):601–602, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2654] Jonathan Tennyson. *Exoplanet Atmospheres: Physical Processes*, by Sara Seager, Scope: reference. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(6):602–603, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2655] Christopher Gerry. *Introduction to Quantum Physics and Relativity*, by Jacob Dunningham and Vlatko Vedral, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(6):603–604, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2656] Manuel Vogel. *Quantum Computation and Quantum Information*, by M. A. Nielsen and I. L. Chuang, Scope: textbook. Level: advanced undergraduate and above. *Contemporary Physics*, 52(6):604–605, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2658] P. J. Bussey. *Higher Speculations: Grand Theories and Failed Revolutions in Physics and Cosmology*, by Helge Kragh, Scope: general interest. Level: general reader. *Contemporary Physics*, 52(6):606, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2659] Mario Bertolotti. *Methods of Wave Theory in Dispersive Media*, by M. V. Kuzelev and A. A. Rukhadze, Scope: monograph. Level: researchers and experts, students and post-graduate. *Contemporary Physics*, 52(6): 607, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2660] Peter Hobson. *Optoelectronic Devices: Design, Modeling, and Simulation*, by Xun Li, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist and engineers. *Contemporary Physics*, 52(6):607–608, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2661] Stephen H. Ashworth. *Energy, the Subtle Concept*, by Jennifer Coopersmith, Scope: monograph. Level: general reader with some scientific background. *Contemporary Physics*, 52(6):608–609, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2662] P. J. Bussey. *Particle Physics Experiments at High Energy Colliders*, by John Hauptman, Scope: review. Level: postgraduate. *Contemporary Physics*, 52(6):609–610, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2663] Manuel Vogel. *Storm and Cloud Dynamics*, 2nd edn., by W. R. Cotton, G. H. Bryan and S. C. van den Heever, Scope: monograph. Level: advanced students and experts. *Contemporary Physics*, 52(6):610–611, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2664] Monica Pierri-Galvao. *The Dark Matter Problem*, by Robert H. Sanders, Scope: review. Level: advanced undergraduate. *Contemporary Physics*, 52(6):611, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2665] S. Virmani. *Introduction to Quantum Statistical Mechanics*, 2nd edn., by N. N. Bogolubov and N. N. Bogolubov, Jr., Scope: monograph. Level:

postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 52(6):611–612, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2666] S. Virmani. *Quantum Field Theory in a Nutshell*, 2nd edn., by A. Zee, Princeton, Scope: edited book. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 52(6):612, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2667] Bill Barnes. *Optical Properties of Solids*, 2nd edn, by Mark Fox, Scope: monograph. Level: undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(6):612–613, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:SSF

[2668] Derry W. Jones. *Soap, Science and Flat-Screen TVs: A History of Liquid Crystals*, by David Dunmur and Tim Sluckin, Scope: history of science with biographies. Level: general reader. *Contemporary Physics*, 52(6): 613–614, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2669] Vlatko Vedral. *Quantum Physics: A Fundamental Approach to Modern Physics*, by John S. Townsend, Scope: reference. Level: undergraduate. *Contemporary Physics*, 52(6):614–615, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2670] B. P. Kibble. *Reliability in Scientific Research: Improving the Dependability of Measurements, Calculations, Equipment, and Software*, by I. R. Walker, Scope: review. Level: postgraduate, early career researcher, researcher, scientist, engineers. *Contemporary Physics*, 52(6):615–616, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2011:HPB

[2671] Peter R. T. Munro. *Handbook of Photonics for Biomedical Science*, edited by Valery V. Tuchin, Scope: handbook. Level: graduate and practising scientist/engineer. *Contemporary Physics*, 52(6):616–617, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Counihan:2011:MCI

[2672] Martin Counihan. *Meteorite Craters and Impact Structures of the Earth*, by Paul Hodge, Scope: reference. Level: general scientific readership. *Contemporary Physics*, 52(6):617, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2673] Peter J. Dobson. *Handbook of Biosensors and Biosensor Kinetics*, by A. Sadana and N. Sadana, Scope: monograph. Level: general readership. *Contemporary Physics*, 52(6):617–618, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2674] M. Jamil. *Neutron Physics for Nuclear Reactors: Unpublished Writings by Enrico Fermi*, edited by S. Esposito and O. Pisanti, Scope: monograph. Level: nuclear physicists, nuclear engineers and researchers. *Contemporary Physics*, 52(6):618–619, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2675] Derry W. Jones. *Super Structures: The Science of Bridges, Buildings, Dams and Other Feats of Engineering*, by Mark Denny, Scope: review. Level: undergraduate or general reader. *Contemporary Physics*, 52(6): 619, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2676] J. Rogel-Salazar. *Statistical Mechanics*, 3rd edn., by R. K. Pathria and P. D. Beale, Scope: textbook. Level: postgraduate or advanced undergraduate. *Contemporary Physics*, 52(6):619–620, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2011:HQM

[2677] J. Rogel-Salazar. *Heisenberg's Quantum Mechanics*, by Mohsen Razavy, Scope: advanced textbook. Level: advanced undergraduate. *Contemporary Physics*, 52(6):620–621, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:PLS

[2678] D. G. C. Jones. *Principles of Laser Spectroscopy and Quantum Optics*, by Paul R. Berman and Vladimir S. Malinovsky, Scope: review. Level:

postgraduate. *Contemporary Physics*, 52(6):621–622, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2679] P. J. Bussey. *The Beautiful Invisible: Creativity, Imagination and Theoretical Physics*, by Giovanni Vignale, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(6):622–623, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Michette:2011:IXP

[2680] Alan Michette. *Introduction to XAFS. A Practical Guide to X-ray Absorption Fine Structure Spectroscopy*, by Grant Bunker, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 52(6):623, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2011:MAQ

[2681] Thomas Peters. *Mathematical Aspects of Quantum Field Theory*, by E. de Faria and W. de Melo, Scope: monograph. Level: graduate. *Contemporary Physics*, 52(6):623–624, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2682] John McFarland. *Astrophysics and Twentieth-Century Astronomy to 1950: Part A*, edited by O. Gingerich, Scope: edited book. Level: pre-university, undergraduate, postgraduate, researcher. *Contemporary Physics*, 52(6):624–625, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tiwari:2011:ENW

[2683] S. C. Tiwari. *Emmy Noether's Wonderful Theorem*, by D. E. Neuenschwander, Scope: monograph. Level: senior undergraduate/graduate physics students. *Contemporary Physics*, 52(6):625–626, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2684] Doğa Gürsoy. *The Science of Imaging: An Introduction*, 2nd edn., by Graham Saxby, Scope: general interest. Level: general readership, nonspecialists, undergraduates, teachers. *Contemporary Physics*, 52(6):626, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2685] Nikolaos E. Myridis. *Paradigms of Combinatorial Optimization: Problems and New Approaches*, edited by Vangelis T. Paschos, Scope: edited book. Level: postgraduate, researcher, teacher, scientist. *Contemporary Physics*, 52(6):626–627, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2686] David L. Andrews. *Introduction to Quantum Optics: From the Semi-Classical Approach to Quantized Light*, by Gilbert Grynberg, Alain Aspect and Claude Fabre, Scope: monograph. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 52(6):627–628, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2687] Jörg Götte. *Quantum Mechanics and Quantum Field Theory: A Mathematical Primer*, by Jonathan Dimock, Scope: reference. Level: postgraduate. *Contemporary Physics*, 52(6):628–629, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2688] D. J. Miller. *What are Gamma-Ray Bursts?*, by Joshua S. Bloom, Scope: review. Level: non-specialists. *Contemporary Physics*, 52(6):629–630, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2011:TSM

[2689] Thomas Peters. *Turbulence and Shell Models*, by P. D. Ditlevsen, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(6):630–631, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Joseph:2011:HOU

[2690] Robert D. Joseph. *How Old is the Universe?*, by David A. Weintraub, Scope: review. Level: undergraduate. *Contemporary Physics*, 52(6):631–632, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2691] Alan Martin. *Quantum Physics for Poets*, by Leon M. Lederman and Christopher T. Hill, Scope: general interest. Level: general readership.

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Milburn:2011:CQI

[2692] Gerard Milburn. *Classical and Quantum Information*, by D. C. Marinescu and G. M. Marinescu, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 52(6):632–633, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hendry:2011:LGA

[2693] Martin Hendry. *Lectures on Gravitation*, by Ashok Das, Scope: review. Level: postgraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 52(6):633–634, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Palffy:2011:QSH

[2694] Adriana Pálffy. *The Quantum Story: A History in 40 Moments*, by Jim Baggott, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(6):634–635, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2011:ADS

[2695] Miguel A. F. Sanjuán. *Adaptation in Dynamical Systems*, by Ivan Tyukin, Scope: monograph, reference. Level: general reader, undergraduate, postgraduate, specialist. *Contemporary Physics*, 52(6):635, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2696] Geoffrey Duxbury. *Concepts and Methods of 2D Infrared Spectroscopy*, by Peter Hamm and Martin Zanni, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 52(6):636, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anonymous:2011:EB

[2697] Anonymous. Editorial board. *Contemporary Physics*, 52(6):ebi, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ralph:2012:RQI

[2698] Timothy C. Ralph and Tony G. Downes. Relativistic quantum information and time machines. *Contemporary Physics*, 53(1):1–16, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2768] Ken Zetie. *Relativity for the Questioning Mind*, by Daniel F. Styer, Scope: general interest. Level: undergraduate. *Contemporary Physics*, 53(3):253, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2780] Bo Reipurth. *Star Clusters: Basic Galactic Building Blocks Throughout Time and Space*, IAU S266, edited by Richard de Grijs and Jacques Lépine, Scope: conference proceedings. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 53(3):268–269, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2863] Peter V. E. McClintock. *What is life?*, Scope: review. Level: general reader. *Contemporary Physics*, 53(5):433–435, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2864] D. J. Miller. *You are Wrong Mr Einstein! Newton, Einstein, Heisenberg and Feynman Discussing Quantum Mechanics*, by Harald Fritzsch, Scope: general interest. Level: undergraduates and/or general readers. *Contemporary Physics*, 53(5):437–439, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2866] Marco Casazza. *Thermal Physics: Entropy and Free Energies*, 2nd edn., by Joon Chang Lee, Scope: review. Level: undergraduates, postgraduates, advanced undergraduates, early career researchers and teachers.

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[2867] Aniruddha Chakraborty. *The Physicist's World: The Story of Motion and the Limits to Knowledge*, by Thomas Grissom, Scope: review. Level: undergraduate. *Contemporary Physics*, 53(5):440–441, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2868] Christian G. Böhmer. *The Geometry of Physics: An Introduction*, 3rd edn., by Theodore Frankel, Scope: review. Level: undergraduates and graduate students, researchers. *Contemporary Physics*, 53(5):441–442, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2869] Thomas Peters. *Turbulence, Coherent Structures, Dynamical Systems and Symmetry*, 2nd edn., by P. Holmes, Scope: monograph. Level: researchers. *Contemporary Physics*, 53(5):442, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2870] P. J. Bussey. *Cosmic Anger: Abdus Salam — The First Muslim Nobel Scientist*, by Gordon Fraser, Scope: biography. Level: general readership. *Contemporary Physics*, 53(5):442–443, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2872] Salvatore Esposito. *Statistical Physics of Liquids at Freezing and Beyond*, by S. P. Das, Scope: monograph. Level: postgraduate, researcher and specialist. *Contemporary Physics*, 53(5):444–445, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2873] Thomas Peters. *Advanced Solid State Physics*, 2nd edn., by P. Phillips, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 53(5):

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[2875] Thomas Peters. *Advanced Topics in Quantum Field Theory: A Lecture Course*, by M. Shifman, Scope: textbook. Level: graduate. *Contemporary Physics*, 53(5):446–447, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2876] Andrew Resnick. *Physics for Clinical Oncology*, edited by Amen Sibtain, Scope: handbook. Level: teacher, specialist. *Contemporary Physics*, 53 (5):447, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2877] Monica Pierri-Galvao. *Neutrino*, by Frank Close, Scope: general interest. Level: general reader, undergraduate through professionals. *Contemporary Physics*, 53(5):447–448, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2879] K. Alan Shore. *Plasmonic Nanoguides and Circuits*, edited by Sergei I. Bozhevolnyi, Scope: monograph. Level: researcher, specialist. *Contemporary Physics*, 53(5):448–449, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2880] Andrew Resnick. *Viral Nanoparticles: Tools for Materials Science and Biomedicine*, by Nicole Steinmetz and Marianne Manchester, Scope: guide, monograph, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 53(5):449, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2882] John I. B. Wilson. *Tokamaks*, 4th edn., by John Wesson, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 53(5):450–451, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2883] David L. Andrews. *Theory of Molecular Fluids Volume 2: Applications*, by Christopher G. Gray, Keith E. Gubbins, and Christopher G. Joslin, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 53(5):451–452, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2884] Nikolaos E. Myridis. *Science: Image in Action* (The Science and Culture Series: Astrophysics), edited by Bertrand Zavidovique and Giosuè Lo Bosco, Scope: conference proceedings. Level: students, researchers and academics. *Contemporary Physics*, 53(5):452–453, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2885] Manuel Vogel. *Accelerator Physics*, 3rd edn., by S. Y. Lee, Scope: textbook. Level: graduate students. *Contemporary Physics*, 53(5):453–454, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2886] Derry W. Jones. *More and Different: Notes from a Thoughtful Curmudgeon*, by Philip W. Anderson, Scope: biography, edited book, review. Level: general readership but parts need physics background. *Contemporary Physics*, 53(5):454–455, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2887] Peter Holland. *A History of Optics from Greek Antiquity to the Nineteenth Century*, by Olivier Darrigol, Scope: monograph. Level: Postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 53(5):455–456, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2888] K. Alan Shore. *Statistics for Imaging, Optics, and Photonics*, (Wiley Series in Probability and Statistics), by Peter Bajorski, Scope: monograph. Level: postgraduate and professional. *Contemporary Physics*, 53 (5):456, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2889] Peter V. E. McClintock. *Astronautics: The Physics of Space Flight*, 2nd edn., by Ulrich Walter, Scope: textbook. Level: space industry professionals, postgraduates, senior undergraduates. *Contemporary Physics*, 53(5):456–457, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2890] Thomas Peters. *Physics of the Atmosphere and Climate*, 2nd edn., by M. L. Salby, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 53(5):457–458, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2893] David Bailin. Essay review: AdS/CFT goes viral. *String Theory and its Applications: From meV to the Planck Scale*, edited by M. Dine, T. Banks, and S. Sachdev. ISBN 978-981-4350-51-8. *Contemporary Physics*, 53(6):481–483, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2894] S. C. Tiwari. *Symmetry and geometry: pursuit of beauty in physics*, Scope: textbook/monograph. level Ph.D. students/researchers. *Contemporary Physics*, 53(6):485–490, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2895] Eric Sheldon. *The Universe in all its dimensions*, Scope: review, textbook. Level: undergraduate and graduate students, scientists, general readership. *Contemporary Physics*, 53(6):491–494, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2896] Eric Sheldon. *The imprint of genius*, Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 53(6):495–498, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2897] Keith A. Benedict. *Basic Aspects of the Quantum Theory of Solids: Order and Elementary Excitations*, by Daniel I. Khomskii, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 53(6):499–500, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2898] Jeff Kuhn. *Solar and Stellar Variability: Impact on Earth and Planets*, IAU S264, by A. G. Kosovichev, A. H. Andrei and J-P Rozelot. Scope: conference proceedings. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 53(6):500–501, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2899] Peter W. Milonni. *Exploring Quantum Physics through Hands-On Projects*, by D. Prutchi and S. R. Prutchi, Scope: general interest, guide, monograph. Level: pre-university, undergraduates, advanced undergraduates, teachers. *Contemporary Physics*, 53(6):501–502, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2900] Manuel Vogel. *Mechanical and Electromagnetic Vibrations and Waves*, by T. Bécherrawy, Scope: textbook. Level: undergraduate students. *Contemporary Physics*, 53(6):502–503, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2901] P. T. Greenland. *Data Analysis for Physical Scientists Featuring Excel(R)*, 2nd edn., by Les Kirkup, Scope: textbook. Level: undergraduates, advanced undergraduates. *Contemporary Physics*, 53(6):503, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2902] Peter V. E. McClintock. *Graphene: Carbon in Two Dimensions*, by Mikhail I. Katsnelson, Scope: monograph. Level: postgraduate students, researchers. *Contemporary Physics*, 53(6):503–504, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2903] Thomas Peters. *Relativistic Cosmology*, by G. F. R. Ellis, R. Maartens and M. A. H. MacCallum, Scope: textbook. Level: graduates. *Contemporary Physics*, 53(6):504–505, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2012:QPI

[2904] Peter J. Bussey. *Quantum Physics: Illusion or Reality?*, by Alastair M. Rae, Scope: review. Level: general readership. *Contemporary Physics*, 53(6):505–506, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Taylor:2012:TAR

[2905] F. W. Taylor. *Theory of Atmospheric Radiative Transfer: A Comprehensive Introduction*, by Manfred Wendisch and Ping Yang, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 53(6):

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[2906] Mike Evans. *Meteorites, Ice and Antarctica: A Personal Account*, by William A. Cassidy, Scope: monograph/general interest. Level: general reader. *Contemporary Physics*, 53(6):506–507, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ellis:2012:SME

[2907] R. Ellis. *Stellar Magnetism*, 2nd edn., by Leon Mestel, Scope: textbook. Level: postgraduates, advanced undergraduates, early career researchers, researchers, teachers, specialists, scientists. *Contemporary Physics*, 53 (6):507–508, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pedder:2012:MTP

[2908] Chris Pedder. *Mr Tompkins in Paperback*, by George Gamow, Scope: general interest. Level: general readership, non-specialists, pre-university, undergraduate. *Contemporary Physics*, 53(6):508–509, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2909] J. Rogel-Salazar. *Organic Light-Emitting Diodes: The Use of Rare-Earth Transition Metals*, by Luiz Pereira, Scope: review. Level: advanced graduate and postgraduate, researchers, specialists. *Contemporary Physics*, 53(6):509, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2012:PPK

[2910] R. S. Shorter. *Plant Physics*, by Karl Niklas, Scope: textbook. Level: specialists, engineers. *Contemporary Physics*, 53(6):509–510, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2911] Ingemar Bengtsson. *Topics in the Foundations of General Relativity and Newtonian Gravitation Theory*, by David B. Malament, Scope: monograph, textbook. Level: postgraduates, advanced undergraduates, early career researcher. *Contemporary Physics*, 53(6):510–511, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2012:AEM

[2912] Peter J. Bussey. *Albert Einstein Memorial Lectures*, by Jacob D. Bekenstein and Raphael Mechoulam. Scope: edited book. Level: non-specialists. *Contemporary Physics*, 53(6):511–512, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2012:WPE

[2913] R. S. Shorter. *The Wonders of Physics*, 3rd edn., by Andrey Varlamov and Lev Aslamazov, Scope: review. Level: general readership, non-specialists, pre-university, teachers. *Contemporary Physics*, 53(6): 512, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2914] Thomas Peters. *Introduction to Black Hole Physics*, by V. P. Frolov and A. Zelnikov, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 53(6):512–513, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2915] Lionel Wilson. *The Physics of Microdroplets*, by Jean Berthier and Kenneth A. Brakke, Scope: review. Level: postgraduates, advanced undergraduates, researchers, scientists, engineers. *Contemporary Physics*, 53 (6):513–514, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2012:BCB

[2916] David J. Miller. *From Black Clouds to Black Holes*, 3rd edn., by Jayant V. Narlikar, Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 53(6):514–515, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wickramasinghe:2012:UCM

[2917] Chandra Wickramasinghe. *The Universe: A Challenge to the Mind*, by Jacques Vanier, Scope: general interest, textbook. Level: undergraduate. *Contemporary Physics*, 53(6):515, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2012:NMP

[2918] M. Jamil. *Nuclear Medicine Physics*, edited by J. J. De Lima, Scope: monograph. Level: graduate students and researchers. *Contemporary*

Physics, 53(6):516, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wykes:2012:HSN

[2919] Catherine M. Wykes. *Handbook of Surface and Nanometrology*, 2nd edn., by David J. Whitehouse, Scope: review. Level: postgraduates, advanced undergraduates, early career researchers, researchers, specialists, engineers. *Contemporary Physics*, 53(6):516–517, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wilson:2012:PRF

[2920] John I. B. Wilson. *Physics of Radio-Frequency Plasmas*, by Pascal Chabert and Nicholas Braithwaite, Scope: monograph, textbook. Level: postgraduates, early career researchers, researchers, scientists, engineers. *Contemporary Physics*, 53(6):517–519, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Agio:2012:AAP

[2921] Mario Agio. *Advances in Atomic Physics: An Overview*, by Claude Cohen-Tannoudji and David Guéry-Odelin, Scope: monograph, text book. Level: postgraduates, advanced undergraduates, early career researchers, researchers, teachers, specialists, scientists. *Contemporary Physics*, 53(6):519–520, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wickramasinghe:2012:ACD

[2922] Chandra Wickramasinghe. *Adventures in Cosmology*, by David Goodstein, Scope: edited book. Level: advanced undergraduates. *Contemporary Physics*, 53(6):520, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2012:NSE

[2923] David J. Miller. *From Nuclei to Stars*, edited by Sabine Lee, Scope: edited book. Level: specialists. *Contemporary Physics*, 53(6):520–521, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2012:FLM

[2924] Andrew Resnick. *Femtosecond Laser–Matter Interactions: Theory*, Experiments, and Applications, by Eugene G. Gamaly, Scope: monograph. Level: postgraduates, advanced undergraduates, early career researchers, teachers, scientists, engineers. *Contemporary Physics*, 53(6):521–522,

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Shore:2012:FNT

[2925] K. Alan Shore. *Fracture Nanomechanics*, by Takayuki Kitamura, Hiroyuki Hirakata, Takashi Sumigawa and Takahiro Shimada, Scope: monograph. Level: researchers, specialists. *Contemporary Physics*, 53 (6):522, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bailin:2012:PSI

[2926] David Bailin. *Perspectives on Supersymmetry II, Advanced Series on Directions in High Energy Physics: Volume 21*, edited by Gordon L. Kane, Scope: edited book. Level: researcher. *Contemporary Physics*, 53 (6):522–524, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Benhamou:2012:PVB

[2927] Mabrouk Benhamou. *Polymer Viscoelasticity — Basics, Molecular Theories, Experiments and Simulations*, 2nd edn, by Yn-Hwang Lin, Scope: textbook. Level: researchers. *Contemporary Physics*, 53(6):524, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2012:RTE

[2928] Manuel Vogel. *The Release of Thermonuclear Energy by Inertial Confinement: Ways Towards Ignition*, by Friedwardt Winterberg, Scope: monograph. Level: scientists, engineers. *Contemporary Physics*, 53(6): 525, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2012:ESU

[2929] David J. Miller. *Exploding Superstars: Understanding Supernovae and Gamma Ray Bursts*, by Alain Mazure and Stéphane Basa, Scope: general interest, textbook. Level: general readership, advanced undergraduates, early career researchers, scientists. *Contemporary Physics*, 53(6): 525–526, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Greenland:2012:PTS

[2930] P. T. Greenland. *Principles of Terahertz Science and Technology*, by Yun-Shik Lee, Scope: monograph. Level: researchers, specialists. *Contemporary Physics*, 53(6):526–527, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Eberly:2012:SPR

[2931] J. H. Eberly. *Stochastic Processes*, by Richard F. Bass, Scope: textbook. Level: postgraduates, researchers. *Contemporary Physics*, 53(6): 527, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2012:CSP

[2932] D. G. C. Jones. *Compound Semiconductor Photonics: Materials, Devices and Integration*, by Chua Soo-Jin, Teng Jinghua and Aaron Danner, Scope: conference proceedings. Level: researchers. *Contemporary Physics*, 53(6):527–528, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2012:QAD

[2933] David J. Miller. *The Quantum Adventure: Does God Play Dice?*, by Alex Montwill and Ann Breslin, Scope: general interest. Level: general readership, undergraduates, teachers. *Contemporary Physics*, 53(6): 528–529, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2012:FFB

[2934] Manuel Vogel. *Fluid Flows to Black Holes: A Tribute to S. Chandrasekhar on His Birth Centenary*, by D. J. Saikia and V. Trimble, Scope: biography. Level: general readership. *Contemporary Physics*, 53(6):529–530, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2012:MLQ

[2935] Thomas Peters. *The Mathematical Language of Quantum Theory: From Uncertainty to Entanglement*, by T. Heinosaari and M. Ziman, Scope: textbook. Level: postgraduates. *Contemporary Physics*, 53(6):530, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2936] Michael Belsley. *Lectures on Quantum Mechanics*, 2nd edn, by Ashok Das, Scope: textbook. Level: postgraduates, advanced undergraduates. *Contemporary Physics*, 53(6):530–531, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2012:IMP

[2937] Salvatore Esposito. *Introduction to Modern Physics: Theoretical Foundations*, by John Dirk Walecka, Scope: textbook. Level: undergraduates, teachers. *Contemporary Physics*, 53(6):531–532, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2012:FIP

[2938] R. S. Shorter. *The Fundamentals of Imaging: From Particles to Galaxies*, by Michael Mark Woolfson, Scope: textbook. Level: General readership, pre-university, teachers. *Contemporary Physics*, 53(6):532, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Coule:2012:QGE

[2939] David H. Coule. *Quantum Gravity*, 3rd edn, by Claus Kiefer, Scope: monograph, textbook. Level: postgraduates, early career researchers, researchers. *Contemporary Physics*, 53(6):532–533, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2940] Nikolaos E. Myridis. *Probability, Random Processes, and Statistical Analysis*, by H. Kobayashi, B. L. Mark and W. Turin, Scope: textbook. Level: undergraduate students, researchers, teachers. *Contemporary Physics*, 53(6):533–534, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

El-Amin:2012:RFP

[2941] M. F. El-Amin. *Rotating Flow*, by Peter Childs, Scope: review. Level: postgraduates, scientists, engineers. *Contemporary Physics*, 53(6):534, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3002] Andrew Resnick. *Dynamical Heterogeneities in Glasses, Colloids, and Granular Media*, edited by Ludovic Berthier, Giulio Biroli, Jean-Philippe Bouchaud, Luca Cipelletti, Wim van Saarloos, Scope: general interest. Level: general readership. *Contemporary Physics*, 54(1):84–85, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3004] G. W. Gibbons. *The Birth of String Theory*, edited by Andrea Cappelli, Elena Castellani, Filippo Colomo and Paolo Di Vecchia, Scope: review. Level: general readers, postgraduates,researchers. *Contemporary Physics*, 54(1):86–87, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3009] P. T. Greenland. *Should we eat Einstein's brain?*, Scope: general interest. Level: general readership. *Contemporary Physics*, 54(2):97–99, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3010] Peter J. Bussey. *The world of many worlds*, Scope: edited book, monograph. Level: specialist. *Contemporary Physics*, 54(2):100–103, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3012] Matt Probert. *High-Pressure Physics*, edited by John Loveday. Scope: conference proceedings, edited book, reference. Level: postgraduate, early career researcher. *Contemporary Physics*, 54(2):105, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3031] Nikolaos E. Myridis. *Networks in Social Policy Problems*, edited by Balázs Vedres and Marco Scotti, Scope: edited book. Level: general readers, researcher, scientist. *Contemporary Physics*, 54(2):119–120, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3052] Robert Appleby. *Accelerator Physics: Example Problems with Solutions*, by William W. MacKay and Mario Conte, Scope: review. Level: undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 54(2):136, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3059] K. Alan Shore. *Nanofabrication Using Focused Ion and Electron Beams: Principles and Applications*, edited by Ivo Utke, Stanisislav Moshkalev and Phillip Russell, Scope: monograph. Level: researcher. *Contemporary Physics*, 54(2):140–141, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3064] Miguel A. F. Sanjuán. *Thermal Physics: Concepts and Practice*, by Allen L. Wasserman, Scope: textbook. Level: advanced undergraduate, graduate students, lecturers. *Contemporary Physics*, 54(3):170–171, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3073] David Bailin. *Group Theory for High Energy Physicists*, by Mohammad Saleem and Muhammad Rafique, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 54(3):177–178, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3074] B. Ishak. *Neutrino Cosmology*, by J. Lesgourgues, G. Mangano, G. Miele and S. Pastor, Scope: monograph. Level: early career researcher, researcher, specialist. *Contemporary Physics*, 54(3):178–179, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3075] R. Ellis. *Binary Paths to Type Ia Supernovae Explosions*, edited by Rosanne Di Stefano, Marina Orio and Maxwell Moe, Scope: conference proceedings. Level: researcher. *Contemporary Physics*, 54(3):179–180, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3077] S. F. Huelga and M. B. Plenio. Vibrations, quanta and biology. *Contemporary Physics*, 54(4):181–207, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3078] David J. Miller. Essay review: The anatomy of a paradigm-shift. *The Continental Drift Controversy*, by Henry R. Frankel. ISBN 978-0-521-87507-3. Scope: monograph. Level: accessible and useful to all levels of reader, from general interest to specialist. *Contemporary Physics*, 54(4): 208–210, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3079] David Bailin. *Quantum Field Theories in Two Dimensions: Collected Works of Alexei Zamolodchikov* (in 2 Volumes), edited by Alexander Belavin, Yaroslav Pugai and Alexander Zamolodchikov, Scope: edited book. Level: researcher. *Contemporary Physics*, 54(4):211–212, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3080] Angie Ma. *Biophysics: Searching for Principles*, by William Bialek, Scope: textbook. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(4):212–213, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3081] B. Ishak. *The First Galaxies in the Universe*, by Abraham Loeb and Steven R. Furlanetto, Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, specialist. *Contemporary Physics*, 54(4):213–214, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3082] Manuel Vogel. *Astrometry for Astrophysics: Methods, Models, and Applications*, edited by William F. van Altena, Scope: edited book. Level: undergraduate, advanced undergraduate. *Contemporary Physics*, 54(4): 214, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3084] Nikolaos E. Myridis. *Artificial Human Sensors: Science and Applications*, by Peter Wide, Scope: monograph. Level: general readership, advanced undergraduate, postgraduate,researcher, teacher, engineers. *Contemporary Physics*, 54(4):215–216, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3089] Peter J. Bussey. *Quantum Concepts in Physics: An Alternative Approach to the Understanding of Quantum Mechanics*, by Malcolm Longair, Scope: textbook. Level: teacher, specialist. *Contemporary Physics*, 54(4):220–221, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3092] Joseph Eberly. *Review of Modern Physics*, by Paul A. Tipler and Ralph A. Llewellyn, Scope: reference, textbook. Level: undergraduate, advanced undergraduate, teacher. *Contemporary Physics*, 54(4):223–224, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3093] Robert D. Joseph. *Isaac Newton's Scientific Method: Turning Data into Evidence about Gravity and Cosmology*, by William L. Harper. Scope: review. Level: specialist. *Contemporary Physics*, 54(4):224–225, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3096] Amgad Salama. *Continuum Mechanics in the Earth Sciences*, by William I. Newman, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54(4):227, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3098] D. C. Barber. *Correction Techniques in Emission Tomography*, edited by Mohammad Dawood, Xiaoyi Jiang and Klaus Schäfers, Scope: review. Level: postgraduate, early career researcher, specialist. *Contemporary Physics*, 54(4):228–229, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3099] M. Jamil. *Fusion, the Energy of the Universe*, by Garry McCracken and Peter Stott, Scope: monograph. Level: postgraduate, advanced undergraduate,early career researcher, researcher. *Contemporary Physics*, 54 (4):229–230, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3102] Norman Dombey. Essay review: Oppenheimer, the bomb and beyond, Scope: biography. Level: general readership [Review of *Inside the Centre: The Life of J. Robert Oppenheimer*, by Ray Monk, London, Jonathon Cape, 2012, 818 pp., £30.00 (hardback), ISBN 978-0-224-06262-6]. *Contemporary Physics*, 54(5):252–253, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3104] Peter J. Dobson. *Biomimetics in Photonics*, edited by Olaf Karthaus, Scope: review. Level: general readership, non-specialists, undergraduate, postgraduate, scientist. *Contemporary Physics*, 54(5):254–255, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3105] Mark Fox. *A Practical Guide to Optical Metrology for Thin Films*, by Michael Quinten, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(5):255, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2013:TSS

[3106] Ken Pounds. *Time, Space, Stars and Man: The Story of the Big Bang*, by Michael M. Woolfson. Scope: review. Level: general readership. *Contemporary Physics*, 54(5):255–256, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Berkshire:2013:IPW

[3107] Frank Berkshire. *Introduction to the Physics of Waves*, by Tim Freegarde, Scope: textbook. Level: general readership, undergraduate, advanced undergraduate, postgraduate, early career researcher, teacher. *Contemporary Physics*, 54(5):256–257, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lovesey:2013:MCQ

[3108] S. W. Lovesey. *A Modern Course in the Quantum Theory of Solids*, edited by Fuxiang Han, Scope: review. Level: postgraduate. *Contemporary Physics*, 54(5):257, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2013:IMP

[3109] J. Rogel-Salazar. *Introduction to Mathematical Physics: Methods and Concepts*, 2nd edn., by Chun Wa Wong, Scope: review. Level: undergraduate. *Contemporary Physics*, 54(5):257–258, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2013:MPI

[3110] Manuel Vogel. *Modern Physics: An Introductory Text*, by Jeremy I. Pfeffer and Shlomo Nir, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 54(5):258–259, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anel:2013:TPI

[3111] Juan A. Añel. *Turing: Pioneer of the Information Age*, by B. Jack Copeland, Scope: general interest. Level: general reader. *Contemporary Physics*, 54(5):259, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Appleby:2013:MUP

[3112] Robert Appleby. *Measurement Uncertainty and Probability*, by Robin Willink, Scope: textbook. Level: specialist. *Contemporary Physics*, 54 (5):259–260, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2013:AAE

[3113] B. Ishak and J. McFarland. *Astrophysics from Antarctica*, edited by Michael G. Burton, Xiangqun Cui and Nicholas F. H. Tothill, Scope: wide-ranging review. Level: postgraduates and specialists. *Contemporary Physics*, 54(5):260–261, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lovesey:2013:EQM

[3114] S. W. Lovesey. *Exploring Quantum Mechanics: A Collection of 700+ Solved Problems for Students, Lecturers, and Researchers*, by Victor Galitski, Boris Karnakov, Vladimir Kogan, and Victor Galitski, Jr., Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54 (5):261, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2013:EME

[3115] Michael Belsley. *Electricity and Magnetism*, by Edward M. Purcell and David J. Morin, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 54(5):261–262, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bucknall:2013:EOP

[3116] David Bucknall. *Electronic and Optical Properties of Conjugated Polymers*, 2nd edn., International Series of Monographs on Physics 159, by William Barford, Scope: review. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(5): 262–263, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Greenland:2013:TPR

[3117] P. T. Greenland. *Terahertz Physics*, by R. A. Lewis, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 54(5):263, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2013:CME

[3118] A. H. Harker. *Computational Methods for Electromagnetic Phenomena: Electrostatics in Solvation, Scattering and Electron Transport*, by Cai Wei, Scope: monograph. Level: postgraduate, researcher. *Contemporary Physics*, 54(5):263–264, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2013:EMP

[3119] Andrew Resnick. *Encyclopaedia of Medical Physics* (2 Volume Set), edited by Slavik Tabakov, Franco Milano, Sven-Erik Strand, Cornelius Lewis and Perry Sprawls, Scope: reference, encyclopedia. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 54(5): 264–265, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2013:RVS

[3120] Derry W. Jones. *Radioactivity: A Very Short Introduction*, by Claudio Tuniz, Scope: general interest. Level: general reader, preferably with physical science background. *Contemporary Physics*, 54(5):265–266, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Leggett:2013:RTC

[3121] A. J. Leggett. *Revolutions in Twentieth-Century Physics*, by David J. Griffiths, Scope: general interest. Level: general readership, nonspecialists, pre-university. *Contemporary Physics*, 54(5):266, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Andrews:2013:LMI

[3122] David L. Andrews. *Light–Matter Interaction: Physics and Engineering at the Nanoscale*, by John Weiner and Frederico Nunes, Scope: textbook. Level: undergraduate, advanced undergraduate, scientist, engineers. *Contemporary Physics*, 54(5):267–268, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Coffey:2013:PIS

[3123] William T. Coffey. *Path Integrals for Stochastic Processes: An Introduction*, by Horacio S. Wio, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 54(5):268, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2013:FTC

[3124] S. J. Blundell. *Field Theories of Condensed Matter Physics*, 2nd edn., by Eduardo Fradkin, Scope: monograph. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5):268–269, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3125] H. Osborn. *An Introduction to Non-Perturbative Foundations of Quantum Field Theory*, by Franco Strocchi, Scope: monograph. Level: scientist. *Contemporary Physics*, 54(5):269, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Holland:2013:GTG

[3126] Peter Holland. *Gauge Theories of Gravitation: A Reader with Commentaries*, edited by Milutin Blagojević and Friedrich W. Hehl, Scope: edited book, reference, review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5):269–270, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2013:ACS

[3127] Matt Probert. *Atomistic Computer Simulations: A Practical Guide*, by V. Brázdová and D. R. Bowler, Scope: reference. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5): 270–271, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Leslie:2013:IPP

[3128] Dawn E. Leslie. *The Infinity Puzzle: The Personalities, Politics and Extraordinary Science Behind the Higgs Boson*, by Frank Close. Scope: general interest. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 54(5):271, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2013:PSO

[3129] Manuel Vogel. *Planetary Systems and the Origins of Life*, Cambridge Astrobiology (No. 3), edited by Ralph Pudritz, Paul Higgs and Jonathon Stone, Scope: edited book. Level: general readership. *Contemporary Physics*, 54(5):271–272, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McCall:2013:TOC

[3130] Martin McCall. Transformation optics and cloaking. *Contemporary Physics*, 54(6):273–286, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2013:CCC

[3131] Derry W. Jones. *Crystallographic centenary celebration: the emergence of X-ray analysis*, Scope: general interest, monograph. Level: general reader, specialist. *Contemporary Physics*, 54(6):287–290, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rowlands:2013:ISP

[3132] George Rowlands. *An Introduction to Stochastic Processes and Nonequilibrium Statistical Physics*, revised edition, Series on Advances in Statistical Mechanics: Volume 19, edited by Horacio S. Wio, Roberto R. Deza and Juan M. López, Scope: review. Level: scientist. *Contemporary Physics*, 54(6):291, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2013:TQW

[3133] Peter J. Bussey. *The Theory of the Quantum World: Proceedings of the 25th Solvay Conference on Physics*, edited by David Gross, Marc Henneaux and Alexander Sevrin, Scope: conference proceedings. Level: postgraduate. *Contemporary Physics*, 54(6):291–292, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2013:EEH

[3134] Manuel Vogel. *Earth: Evolution of a Habitable World*, 2nd edn., by J. I. Lunine, Scope: monograph. Level: general readership, non-specialists, pre-university. *Contemporary Physics*, 54(6):292, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Krotov:2013:FMB

[3135] Sergey Krotov. *First Magnitude: A Book of the Bright Sky*, by James B. Kaler, Scope: edited book, general interest. Level: general readership, pre-university, undergraduate. *Contemporary Physics*, 54(6):293, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sumner:2013:DMN

[3136] T. J. Sumner. *Dark Matter, Neutrinos and Our Solar System*, Scope: monograph. Level: general readership, postgraduate, researcher. *Contemporary Physics*, 54(6):293–294, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2013:STS

[3137] Francisco Caruso. *On Space and Time*, Scope: edited book. Level: general readership, non-specialists, pre-university, undergraduate, advanced undergraduate, postgraduate, early career research, research, teacher, specialist. *Contemporary Physics*, 54(6):294–295, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Schutz:2013:EPG

[3138] Gunter M. Schütz. *Exercises in Probability: A Guided Tour from Measure Theory to Random Processes, via Conditioning*, 2nd edn., by L. Chaumont and M. Yor, Scope: guide. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(6):295–296, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2013:ODS

[3139] Salvatore Esposito. *Order and Disorder: Science Essentials for the Non-Scientist*, by Myron Kaufman, Scope: general interest. Level: general readership, teacher. *Contemporary Physics*, 54(6):296–297, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2013:CPI

[3140] Peter R. T. Munro. *Computational Photonics: An Introduction With MATLAB*, by Marek S. Wartak, Scope: textbook. Level: undergraduate, postgraduate, practising scientists and engineers. *Contemporary Physics*, 54(6):297, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2013:SPF

[3141] K. Alan Shore. *Silicon Photonics: Fundamentals and Devices*, by M. Jamal Deen and P. K. Basu, Scope: textbook. Level: postgraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 54(6):297–298, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Chakraborty:2013:SMM

[3142] Aniruddha Chakraborty. *Simple Models of Magnetism*, Oxford Graduate Texts, by Ralph Skomski, Scope: review. Level: advanced undergraduate. *Contemporary Physics*, 54(6):298–299, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Khare:2013:TCT

[3143] Prashant Khare. *Ten Chapters in Turbulence*, edited by Peter A. Davidson, Yukio Kaneda and Katepalli R. Sreenivasan, Scope: edited book, reference, review. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 54(6):299–300, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Downing:2013:TMP

[3144] Charles A. Downing. *Topics in Modern Physics: Theoretical Foundations*, by John Dirk Walecka, Scope: textbook. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 54(6):300, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2013:HMV

[3145] Nikolaos E. Myridis. *Handbook of* 3*D Machine Vision: Optical Metrology and Imaging*, Series in Optics and Optoelectronics, edited by Song Zhang, Scope: edited book. Level: postgraduate, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 54(6):300–301, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2013:QCL

[3146] K. Alan Shore. *Quantum Cascade Lasers*, by Jérôme Faist, Scope: monograph. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(6):301–302, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tarleton:2013:DMS

[3147] Edmund Tarleton. *Dislocations, Mesoscale Simulations and Plastic Flow*, Oxford Series on Materials Modelling 5, by Ladislas Kubin, Scope: textbook. Level: postgraduate, researcher. *Contemporary Physics*, 54(6): 302–303, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2013:EMT

[3148] K. Alan Shore. *Electromechanics and MEMS*, by Thomas B. Jones and Nenad G. Nenadic, Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 54(6):303, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2013:TIE

[3149] Richard Shorter. *TESLA: Inventor of the Electrical Age*, by W. Bernard Carlson, Scope: biography. Level: general readership. *Contemporary Physics*, 54(6):303–304, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Chakraborty:2013:WWR

[3150] Aniruddha Chakraborty. *The Wonderful World of Relativity: A Precise Guide for the General Reader*, by Andrew M. Steane, Scope: review.

Level: non-specialists. *Contemporary Physics*, 54(6):304, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2013:NVE

[3151] Richard Shorter. *Night Vision: Exploring the Infrared Universe*, by Michael Rowan-Robinson, Scope: general interest, textbook. Level: general readership, advanced undergraduate, teacher. *Contemporary Physics*, 54(6):304–305, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ellis:2013:LDS

[3152] R. Ellis. *The Life and Death of Stars*, by Kenneth R. Lang, Scope: monograph. Level: general readership, non-specialists, pre-university, undergraduate. *Contemporary Physics*, 54(6):305–306, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2013:GSE

[3153] Manuel Vogel. *Gravitation and Spacetime*, 3rd edn., by Hans C. Ohanian and Remo Ruffini, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54(6):306, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Brown:2013:SMC

[3154] L. M. Brown. *Strengthening Mechanisms in Crystal Plasticity*, by Ali Argon, Scope: review. Level: scientist, engineers. *Contemporary Physics*, 54(6):306–307, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2013:EGN

[3155] Thomas Peters. *Einstein Gravity in a Nutshell*, by A. Zee, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 54(6):307–308, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Riis:2013:OMS

[3156] Erling Riis. *Optical Magnetometry*, Scope: reference. Level: postgraduate. *Contemporary Physics*, 54(6):308–309, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Andrews:2013:QPL

[3157] David L. Andrews. *Quantum Physics and Linguistics: A Compositional, Diagrammatic Discourse*, Scope: edited book, monograph. Level: postgraduate, early career researcher, researcher, specialist. *Contemporary*

Physics, 54(6):309, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anonymous:2013:EB

[3158] Anonymous. Editorial board. *Contemporary Physics*, 54(6):ebi, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fernandez-Garcia:2014:DCN

[3159] Roberto Fernández-García, Yannick Sonnefraud, Antonio I. Fernández-Domínguez, Vincenzo Giannini, and Stefan A. Maier. Design considerations for near-field enhancement in optical antennas. *Contemporary Physics*, 55(1):1–11, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Knuth:2014:IBP

[3160] Kevin H. Knuth. Information-based physics: an observer-centric foundation. *Contemporary Physics*, 55(1):12–32, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harter:2014:CAI

[3161] A. Härter and J. Hecker Denschlag. Cold atom–ion experiments in hybrid traps. *Contemporary Physics*, 55(1):33–45, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milburn:2014:QDS

[3162] G. J. Milburn. *Quantum Dissipative Systems*, (Fourth edition), by Ulrich Weiss, Scope: monograph. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 55(1):46–47, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:NLH

[3163] D. G. C. Jones. *Nature Loves to Hide: Quantum Physics and the Nature of Reality*, a Western Perspective (Revised Edition), by Shimon Malin, Scope: review. Level: non-specialists, undergraduate. *Contemporary Physics*, 55(1):47, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zetie:2014:TTW

[3164] K. P. Zetie. *Time Travel and Warp Drives: A Scientific Guide to Shortcuts through Time and Space*, by Allen Everett and Thomas Roman, Scope: general interest. Level: undergraduate, pre-university, teacher, scientist. *Contemporary Physics*, 55(1):47–48, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2014:GOA

[3165] Mark Fox. *Generalised Optomechanics and its Applications: Quantum Optical Properties of Generalised Optomechanical System*, by Jin-Jin Li and Ka-Di Zhu, Scope: monograph. Level: researcher. *Contemporary Physics*, 55(1):48, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2014:MEA

[3166] Thomas Peters. *Modern Electrodynamics*, by Andrew Zangwill, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 55(1):49, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2014:PVM

[3167] Peter J. Bussey. *A Physicist's View of Matter and Mind*, by Chandre Dharma-wardana, Scope: general interest. Level: scientist. *Contemporary Physics*, 55(1):49–50, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ellis:2014:CCH

[3168] Richard Ellis. *The Cosmic Century: A History of Astrophysics and Cosmology*, by Malcolm S. Longair, Scope: monograph, reference, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 55(1):50–51, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lancaster:2014:PDE

[3169] Tom Lancaster. *Polarons*, by David Emin, Scope: monograph. Level: postgraduate, researcher. *Contemporary Physics*, 55(1):51, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2014:PMK

[3170] Manuel Vogel. *Physical Mathematics*, by Kevin Cahill, Scope: reference, text book. Level: advanced undergraduate, researcher. *Contemporary Physics*, 55(1):51–52, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2014:YSP

[3171] Peter J. Bussey. *100 Years of Subatomic Physics*, edited by Ernest M. Henley and Stephen D. Ellis, Scope: edited book. Level: specialist. *Contemporary Physics*, 55(1):52–53, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2014:MTF

[3172] Andrew Resnick. *Mathematical Topics in Fluid Mechanics — Volumes 1 & 2*, by Pierre-Louis Lions, Scope: monograph, review. Level: postgraduate, researcher, specialist, scientist. *Contemporary Physics*, 55(1): 53, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Owen:2014:HAR

[3173] Hywel Owen, Ranald MacKay, Ken Peach, and Susan Smith. Hadron accelerators for radiotherapy. *Contemporary Physics*, 55(2):55–74, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2014:NGM

[3174] L. Wang and S. Gai. The next generation mass storage devices — physical principles and current status. *Contemporary Physics*, 55(2):75–93, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fedorov:2014:SME

[3175] M. V. Fedorov and N. I. Miklin. Schmidt modes and entanglement. *Contemporary Physics*, 55(2):94–109, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Burton:2014:AER

[3176] David A. Burton and Adam Noble. Aspects of electromagnetic radiation reaction in strong fields. *Contemporary Physics*, 55(2):110–121, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2014:UNR

[3177] A. H. Harker. *Understanding the Nanotechnology Revolution*, by Edward L. Wolf and Manasa Medikonda, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(2):122, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Virmani:2014:ISM

[3178] S. Virmani. *An Introduction to Statistical Mechanics and Thermodynamics*, by Robert H. Swendsen, Scope: text book. Level: non-specialists. undergraduate. postgraduate. advanced undergraduate. teacher. scientist. engineers. *Contemporary Physics*, 55(2):122–123, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2014:ONE

[3179] Peter J. Dobson. *Optochemical Nanosensors*, edited by Andrea Cusano, Francisco J. Arregui, Michele Giordano and Antonello Cutolo, Scope: monograph, reference. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 55(2): 123–124, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2014:IQI

[3180] Michael Belsley. *Introduction to Quantum Information Science*, by Vlatko Vedral, Scope: text book. Level: advanced undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 55(2):124–125, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2014:CMP

[3181] A. H. Harker. *Computational Methods for Physics*, by Joel Franklin, Scope: text book. Level: undergraduate. *Contemporary Physics*, 55(2): 125, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2014:STS

[3182] Peter V. E. McClintock. *Space, Time, & Stuff*, by Frank Arntzenius, Scope: monograph. Level: postgraduate students, researchers. *Contemporary Physics*, 55(2):126, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2014:MSM

[3183] J. Rogel-Salazar. *Modern Statistical Methods for Astronomy With R Applications*, by Eric D. Feigelson and G. Jogesh Babu, Scope: reference. Level: advanced undergraduate, graduate, specialised. *Contemporary Physics*, 55(2):126–127, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Huan:2014:SCE

[3184] Chao Huan. *Spin Current*, edited by Sadamichi Maekawa, Sergio O. Valenzuela, Eiji Saitoh, and Takashi Kimura, Scope: monograph, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 55(2): 127–128, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stewart:2014:INR

[3185] John M. Stewart. *Introduction to* $3+1$ *Numerical Relativity*, by Miguel Alcubierre, Scope: review. Level: advanced undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 55(2):128–129, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2014:SBD

[3186] Peter V. E. McClintock. *Simple Brownian Diffusion*, by Daniel Thomas Gillespie and Effrosyni Seitaridou, Scope: textbook. Level: senior undergraduate students, postgraduates, researchers. *Contemporary Physics*, 55(2):129, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2014:NSV

[3187] Peter V. E. McClintock. *Novel Superfluids: Vol. 1*, edited by K. H. Bennemann and J. B. Ketterson, Scope: monograph. Level: postgraduate students, researchers. *Contemporary Physics*, 55(2):130–132, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2014:SDA

[3188] J. Rogel-Salazar. *Statistical Data Analysis for the Physical Sciences*, by Adrian Bevan, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 55(2):132–133, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McOrist:2014:GTM

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[3192] Salvatore Esposito. *Herschel 400 Observing Guide*, by Stephen James O'Meara, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(2):135, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3193] C. A. Downing. *Foundation Mathematics for the Physical Sciences*, by K. F. Riley and M. P. Hobson, Scope: textbook, solution manual. Level: first year undergraduate. *Contemporary Physics*, 55(2):136, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3194] Peter J. Dobson. *Nanotechnology for the Energy Challenge*, edited by Javier Garcia-Martinez, Scope: monograph, reference, review. Level: undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 55(2):136–137, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3196] D. W. Jones. *Uncorked: The Science of Champagne*, Revised ed. by Gerard Liger-Belair, Scope: general interest, monograph. Level: postgraduate, advanced undergraduate, researcher, scientist. *Contemporary Physics*, 55(2):138–139, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3197] Eric Sheldon. *Behind the Scenes of the Universe: From the Higgs to Dark Matter*, by Gianfranco Bertone. Scope: popular survey, general interest. Level: general readership, undergraduate, teacher, scientist. *Contemporary Physics*, 55(2):139–140, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3198] J. R. Sambles. *Transmission Lines: Equivalent Circuits, Electromagnetic Theory and Photons*, by Richard Collier, Scope: review. Level: undergraduates. *Contemporary Physics*, 55(2):140–141, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3201] D. C. Barber. *Webb's Physics of Medical Imaging*, (Second Edition), edited by M. Flower, Scope: textbook, review. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 55(2): 142–143, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3202] S. W. Lovesey. *Complex Dynamics of Glass-forming Liquids: A Mode-coupling Theory*, by Wolfgang Götze, Scope: review. Level: general readership. *Contemporary Physics*, 55(2):143–144, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3203] Mario Bertolotti. *Cosmic Masers — From OH to Ho (IAU S287)*, edited by Roy S. Booth, Wouter H. T. Vlemmings and Elizabeth M. L. Humphreys. Scope: edited book. Level: specialist. *Contemporary Physics*, 55(2):144–145, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3204] Peter R. Hobson. *Imaging Gaseous Detectors and their Applications*, by Eugenio Nappi and Vladimir Peskov, Scope: monograph. Level: postgraduate, researcher. *Contemporary Physics*, 55(2):145, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3205] Peter Holland. *Physical Foundations of Continuum Mechanics*, by A. Ian Murdoch, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 55(2):145–146, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3206] D. J. Miller. *Nuclear Physics: Exploring the Heart of Matter*, by National Research Council, Scope: report, review. Level: administrators of nuclear physics research programmes, politicians, interested non-experts, physics students looking for an overview, postgraduate, researcher. *Contemporary Physics*, 55(2):146–147, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3209] S. J. Blundell Professor. *Frustrated Spin Systems*, (2nd ed.), edited by H. T. Diep, Scope: monograph. Level: researcher. *Contemporary Physics*, 55(2):148–149, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3210] Lachlan Marnham. *Quantum Information Theory and the Foundations of Quantum Mechanics*, by Christopher G. Timpson, Scope: review, text book. Level: non-specialists, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 55(2):149, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3211] Juan A. Añel. *Mesoscale-Convective Processes in the Atmosphere*, by Robert J. Trapp, Scope: textbook. Level: undergraduate, postgraduate, advanced undergraduate, researcher, teacher. *Contemporary Physics*, 55 (2):149–150, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3213] N. Riley Professor. *Granular Media; Between Fluid and Solid*, by Bruno Andreotti, Yoël Forterre and Olivier Pouliquen, Scope: monograph, reference. Level: postgraduate, researcher and specialist. *Contemporary Physics*, 55(2):151–152, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3214] S. J. Blundell Professor. *Statistical Mechanics of Magnetic Excitations*, From Spin Waves to Stripes and Checkerboards, by Enrico Rastelli, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 55(2): 152–153, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3215] Manuel Vogel. *The Cosmos: Astronomy in the New Millennium*, 4th edition, by Jay M. Pasachoff and Alex Filippenko, Scope: general interest, text book. Level: pre-university, undergraduate. *Contemporary Physics*, 55(2):153, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3216] H. Osborn. *Gauge Theories in Particle Physics: A Practical Introduction*, Fourth Edition, Volumes 1 & 2, by Ian Aitchison and Anthony Hey, Scope: textbook. Level: advanced undergraduates, graduates. *Contemporary Physics*, 55(2):154, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3217] Stig Stenholm. *Mathematics of Quantization and Quantum Fields*, by Jan Dereziński and Christian Gérard, Scope: monograph. Level: specialist. *Contemporary Physics*, 55(2):154–155, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3218] H. Osborn. *Three-Particle Physics and Dispersion Relation Theory*, by A. V. Anisovich, V. V. Anisovich, M. A. Matveev, V. A. Nikonov, J. Nyiri, and A. V. Sarantsev, Scope: monograph. Level: specialists. *Contemporary Physics*, 55(2):155–156, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3219] B. Ishak. *String Theory and the Scientific Method*, by Richard Dawid, Scope: general interest. Level: specialists, scientists. *Contemporary Physics*, 55(2):156, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3220] T. N. Palmer. Lorenz, Gödel and Penrose: new perspectives on determinism and causality in fundamental physics. *Contemporary Physics*, 55(3): 157–178, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3223] M. S. Child. Quantum monodromy and molecular spectroscopy. *Contemporary Physics*, 55(3):212–221, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3224] Derry W. Jones. *The genesis of the Bohr atom*, Scope: review. Level: general readership, undergraduate, postgraduate, advanced undergraduate. *Contemporary Physics*, 55(3):222–225, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3226] Norman Dombey. *Churchill's Bomb: a hidden history of science, war and politics*, Scope: history of science. Level: general reader. *Contemporary Physics*, 55(3):231–234, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3227] Ignazio Licata. *In search of the quantum oneness*, Scope: review. Level: scientist. *Contemporary Physics*, 55(3):235–237, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3228] Eric Sheldon. *The nuclear astrophysics of star-shine*, Scope: textbook. Level: advanced undergraduate, graduate, professional and specialist researcher, early career researcher. *Contemporary Physics*, 55(3):238–241, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3229] Peter J. Bussey. *Complexity is complex*, Scope: edited book. Level: general reader, specialist. *Contemporary Physics*, 55(3):242–245, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3231] Mark Nicol. *Physical Principles of Remote Sensing*, (3rd Edition), by W. G. Rees, Scope: handbook, text book. Level: undergraduate, postgraduate, advanced undergraduate, teacher, engineers. *Contemporary Physics*, 55(3):246–247, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3232] Nikolaos E. Myridis. *Ultra-realistic Imaging: Advanced Techniques in Analogue and Digital Colour Holography*, by Hans Bjelkhagen and David Brotherton-Ratcliffe, Scope: handbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 55(3):247–248, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3233] Prashant Khare. *Physics of Continuous Media: Problems and Solutions in Electromagnetism, Fluid Mechanics and MHD*, by Grigory Vekstein, Scope: reference, text book. Level: postgraduate, advanced undergraduate, early career researcher, teacher, engineers. *Contemporary Physics*, 55(3):248–249, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3234] Mark Nicol. *Planetary Science: The Science of Planets around Stars*, Second Edition, by George H. A. Cole and Michael M. Woolfson, Scope: general interest, text book. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, scientist, engineers. *Contemporary Physics*, 55(3):249–250, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3235] Tom Lancaster. *Advanced Mechanics: From Euler's Determinism to Arnold's Chaos*, by S. G. Rajeev, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 55(3):250, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3236] Steven R. Spurgeon. *Experimental Neutron Scattering*, by B. T. M. Willis and C. J. Carlile, Scope: text book. Level: undergraduate. *Contemporary Physics*, 55(3):250–251, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3237] Peter J. Bussey. *Modern Particle Physics*, by Mark Thomson, Scope: textbook. Level: postgraduate, teacher. *Contemporary Physics*, 55(3): 251–252, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3238] Thomas Peters. *Fundamental Planetary Science: Physics, Chemistry and Habitability*, by Jack J. Lissauer and Imke de Pater, Scope: textbook, level: undergraduate. *Contemporary Physics*, 55(3):252, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3239] Y. I. Salamin. *Schrödinger's Killer App: Race to Build the World's First Quantum Computer*, by Jonathan P. Dowling, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(3):252–254, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pierri-Galvao:2014:BCP

[3240] Dr. Monica Pierri-Galvao. *Basic Concepts in Physics: From the Cosmos to Quarks*, by Masud Chaichian, Hugo Perez Rojas and Anca Tureanu, Scope: review. Level: undergraduate. *Contemporary Physics*, 55 (3):254, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bengtsson:2014:TFS

[3241] Ingemar Bengtsson. *On the Topology and Future Stability of the Universe*, by Hans Ringström, Scope: monograph. Level: researcher. *Contemporary Physics*, 55(3):254–255, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3242] Manuel Vogel. *Extreme physics: properties and behaviour of matter at extreme conditions*, by Jeff Colvin and Jon Larsen, Scope: text book.

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[3243] Mark Nicol. *Understanding the Universe: An Inquiry Approach to Astronomy and the Nature of Scientific Research*, by George Greenstein, Scope: text book. Level: pre-university, undergraduate, teacher. *Contemporary Physics*, 55(3):256–257, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:TSE

[3244] D. W. Jones. *A Tale of Seven Elements*, by Eric Scerri, Scope: accessible monograph. Level: undergraduate, general readership. *Contemporary Physics*, 55(3):257–258, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2014:APP

[3245] Mark Fox. *Atomic Physics: Precise Measurements and Ultracold Matter*, by Massimo Inguscio and Leonardo Fallani, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 55(3):258–259, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3246] Peter R. T. Munro. *Handbook of Biophotonics*: 3 Volume Set, edited by Jürgen Popp, Valery V. Tuchin, Arthur Chiou and Stefan H. Heinemann, Scope: handbook, reference. Level: specialist, scientist, engineers. *Contemporary Physics*, 55(3):259, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3247] Marco Casazza. *The Principle of the Common Cause*, by Gábor Hofer-Szabó, Miklós Rédei and Lázló E. Szabó, Scope: monograph. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 55(3):260, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3248] Thomas Peters. *Econophysics and Physical Economics*, by Peter Richmond, Jürgen Mimkes and Stefan Hutzler, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 55(3):260–261, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3249] M. G. Edmunds. The Antikythera mechanism and the mechanical universe. *Contemporary Physics*, 55(4):263–285, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3250] F. Battista. Single particle sources and quantum heat fluctuations. *Contemporary Physics*, 55(4):286–301, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3251] Guy Ropars, Vasudevan Lakshminarayanan, and Albert Le Floch. The sunstone and polarised skylight: ancient Viking navigational tools? *Contemporary Physics*, 55(4):302–317, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3252] A. E. Biondo, A. Pluchino, and A. Rapisarda. Micro and macro benefits of random investments in financial markets. *Contemporary Physics*, 55 (4):318–334, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3253] Derry W. Jones. *Serving the Reich: The Struggle for the Soul of Physics under Hitler*, by Philip Ball, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(4):335–336, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:CGH

[3254] Derry W. Jones. *Crystals in Glass: A Hidden Beauty*, by E. D. Zanotto, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(4):336–337, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3255] K. Alan Shore. *Electronic Processes in Non-crystalline Materials*, (Second Edition), by N. F. Mott and E. A. Davis, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 55(4):337, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2014:SCD

[3256] J. Rogel-Salazar. *Stochastic Calculus and Differential Equations for Physics and Finance*, by Joseph L. McCauley, Scope: review. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 55(4):338, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2014:QPS

[3257] Mark Fox. *Quantum Processes in Semiconductors*, (Fifth Edition), by Brian K. Ridley, Scope: text book. Level: postgraduate. *Contemporary Physics*, 55(4):338–339, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Khare:2014:SGE

[3258] Prashant Khare. *A Student's Guide to Entropy*, by Don S. Lemons, Scope: textbook. Level: undergraduate, early stage postgraduate. *Contemporary Physics*, 55(4):339, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2014:SIL

[3259] Nikolaos E. Myridis. *Scientific Inference: Learning from Data*, by Simon Vaughan, Scope: textbook. Level: undergraduate, advanced undergraduate, researcher, teacher, scientist, engineers. *Contemporary Physics*, 55 (4):339–340, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3260] Manuel Vogel. *The Physics of Quantum Mechanics*, by James Binney and David Skinner, Scope: text book. Level: undergraduate, advanced undergraduate. *Contemporary Physics*, 55(4):340–341, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3261] Peter J. Bussey. *The Physics of Reality: Space, Time, Matter, Cosmos*, edited by Richard L. Amoroso, Louis H. Kauffman and Peter Rowlands, Scope: conference proceedings. Level: specialist. *Contemporary Physics*, 55(4):341–342, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3262] D. G. C. Jones. *How the Ray Gun Got Its Zap: Odd Excursions into Optics*, by Stephen R. Wilk, Scope: review. Level: general readership, non-specialists, undergraduate. *Contemporary Physics*, 55(4):342, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2014:AVS

[3263] Peter V. E. McClintock. *Astrobiology: A Very Short Introduction*, by David C. Catling, Scope: monograph. Level: general readership. *Contemporary Physics*, 55(4):342–344, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3264] K. Alan Shore. *Functional Differential Geometry*, by Gerald Jay Sussman and Jack Wisdom with Will Farr, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 55(4):344, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3265] K. Alan Shore. *Introduction to Graphene-Based Nanomaterials: From Electronic Structure to Quantum Transport*, by Luis E. F. Foa Torres, Stephan Roche and Jean-Christophe Charlier, Scope: textbook. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 55(4): 344–345, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3266] B. Ishak. *The Physics and Evolution of Active Galactic Nuclei*, by Hagai Netzer, Scope: monograph. Level: specialists. *Contemporary Physics*, 55 (4):345, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3267] Chih-Yueh Wang. *Neutron Stars and Pulsars (IAU S291): Challenges and Opportunities after 80 Years, Proceedings of the International Astronomical Union (IAU S279)*, edited by Joeri van Leeuwen., Scope: conference proceedings. Level: researcher, scientist. *Contemporary Physics*, 55(4):346–347, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3268] B. Ishak. *Dark Matter and Cosmic Web Story*, by Jaan Einasto, Scope: monograph. Level: general readership, specialists. *Contemporary Physics*, 55(4):347, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3269] S. W. Lovesey. *Perspectives on Spin Glasses*, by Pierluigi Contucci and Cristian Giardinà, Scope: reference. Level: postgraduate. *Contemporary Physics*, 55(4):347–348, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3400] B. Ishak. *Nearest Star: The Surprising Science of our Sun*, (2nd Edition), by Leon Golub and Jay M. Pasachoff, Scope: general interest. Level: general readership. *Contemporary Physics*, 56(4):500, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3401] S. W. Lovesey. *Solution Manual for Quantum Mechanics* (2nd edition), by Ahmed Ishtiaq, Fayyazuddin and Riazuddin, Scope: manual. Level: undergraduate. *Contemporary Physics*, 56(4):501, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3403] Peter J. Bussey. *The Large Hadron Collider: The Extraordinary Story of the Higgs Boson and Other Stuff that will Blow Your Mind*, by Don Lincoln. Scope: general interest. Level: general reader. *Contemporary Physics*, 56(4):502, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3407] Peter R. Hobson. *Measurement Instrumentation and Sensors Handbook Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement*, by J. G. Webster and H. Eren, Scope: reference, handbook. Level: non-specialists, undergraduate, advanced undergraduate, postgraduate, early career researcher, teacher, scientist, engineers. *Contemporary Physics*, 56(4):505–506, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3409] Andrew Resnick. *Lie groups and Lie algebras for physicists*, by Ashok Das and Susumu Okubo, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 56(4):506–507, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3412] Peter J. Bussey. *Proceedings of the Conference in Honour of the 90th Birthday of Freeman Dyson*, edited by K. K. Phua, L. C. Kwek, N. P. Chang, and A. H. Chang, Scope: conference proceedings. Level: postgraduate, researcher. *Contemporary Physics*, 56(4):508–509, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3413] Norman Riley. *Double-diffusive Convection*, by Timour Radko, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 56(4):509–510, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3414] Miguel A. F. Sanjuán. *A Certain Uncertainty. Nature's Random Ways*, by Mark P. Silverman, Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 56(4):510, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3415] Nigel John Mason. *An Introduction to Planets. Ours and Others; From Earth to Exoplanets*, by Therese Encrenaz, Scope: guide, general interest. Level: general readership, non-specialists, pre-university, undergraduate, advanced undergraduate. *Contemporary Physics*, 56(4):511, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3424] Enda McGlynn. *Crystal Symmetry, Lattice Vibrations, and Optical Spectroscopy of Solids: A Group Theoretical Approach*, Scope: textbook. Level: postgraduate, early career researcher, researcher, specialist, scientist & engineers. *Contemporary Physics*, 57(1):96–99, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3425] Peter J. Bussey. Essay review: Illumination on information. *Information and the Nature of Reality: from Physics to Metaphysics*, edited by Paul Davies and Niels Henrik Gregersen, Cambridge, Cambridge University Press, 2014,. 488 pp. £12.99 (paperback). ISBN 978-1-107-68453-9. Scope: edited book. Level: general readership, researcher. *Contemporary Physics*, 57(1):100–103, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3427] B. Ishak. *Deep-sky Companions: The Messier Objects*, (2nd Edition), Scope: reference. Level: general readership. *Contemporary Physics*, 57 (1):110–112, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3428] Peter W. Milonni. *Lasers: the first 50 years*, Scope: review, general interest. Level: general readership, teacher, undergraduate. *Contemporary Physics*, 57(1):113–116, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3429] Prashant Khare. *Incompressible Flow*, 4th Edition, by Ronald L. Panton, Scope: textbook. Level: advanced undergraduate, early stage postgraduate. *Contemporary Physics*, 57(1):117–118, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3430] Michael C. Ogilvie. *Dynamics of the standard model*, 2nd edition, John F. Donoghue, Eugene Golowich and Barry R. Holstein, Scope: monograph, reference. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 57(1):118–120, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3431] Richard Keesing. *Discrete or Continuous? The Quest for Fundamental Length in Physics*, by Amit Hagar, Scope: monograph. Level: advanced undergraduate, postgraduate. early career researcher, researcher. *Contemporary Physics*, 57(1):120–121, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2016:VMR

[3432] Nikolaos E. Myridis. *4D visualization of matter: recent collected works of Ahmed H. Zewail, Nobel Laureate*, by Nikolaos E. Myridis, Scope: anthology (article collection). Level: academics, researchers, postgraduates and specialists in: physical chemistry, biochemistry, chemical biology, biophysics, bioengineering, imaging, structural biology, cancer research. *Contemporary Physics*, 57(1):122, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3433] K. Alan Shore. *Towards a new dimension: Exploring the Nanoscale*, by Anne Marcovich and Terry Shinn, Scope: monograph. Level: specialist. *Contemporary Physics*, 57(1):122–124, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3434] K. Alan Shore. *Nanoscale microwave engineering: Optical control of nanodevices*, by Charlotte Tripon-Canseliet and Jean Chazelas, Scope: monograph. Level: specialist. *Contemporary Physics*, 57(1):124–125, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3435] B. Ishak. *Astrophysics Processes: The Physics of Astronomical Phenomena*, by Hale Bradt, Scope: textbook. Level: postgraduate, advanced undergraduate, teacher. *Contemporary Physics*, 57(1):125–126, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3436] B. Ishak. *An Introduction to Galaxies and Cosmology*, (2nd Edition), edited by Mark H. Jones, Robert J. A. Lambourne, and Stephen Serjeant, Scope: textbook. Level: general readership, undergraduate. *Contemporary Physics*, 57(1):126–128, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3437] B. Ishak. *Gravitation and Spacetime*, (3rd Edition), by Hans C. Ohanian and Remo Ruffini, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 57(1):128, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3438] B. Ishak. *Astrophysics Through Computation: With Mathematica$^{(R)}$ Support*, by Brian Koberlein and David Meisel, Scope: textbook. Level: advanced undergraduates, graduate students. *Contemporary Physics*, 57 (1):129, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3439] K. Alan Shore. *Quantum Transport Calculations for Nanosystems*, by Kenji Hirose and Nobuhiko Kobayashi, Scope: monograph. Level: specialist, researcher, early career researcher. *Contemporary Physics*, 57(1): 129–130, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Blundell:2020:BRP

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Anel:2020:BRS

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Vogel:2020:BRMa

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Ali:2020:BRL

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Clayton:2020:BRT

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Ashworth:2020:BRIa

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Shore:2020:BRL

[4063] K. Alan Shore. Book review: *Lectures on astrophysics*, by S. Weinberg, Cambridge, Cambridge University Press, 2020, 226 pp., £34.99 (hardback), ISBN 978-1-108-41507-1. Scope: textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(1): 59–60, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2020:BRG

[4064] K. Alan Shore. Book review: *Gravity! The quest for gravitational waves*, by Pierre Binêtruy, Oxford, Oxford University Press, 2018, 245 pp., 19.99 (hardback), ISBN: 978-0-19-879651-0. Scope: monograph. Level: general readership. *Contemporary Physics*, 61(1):60–61, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Howard:2020:BRP

[4068] Eric Howard. Book review: *Physics on Ultracold quantum gases*, by Y. Han, W. Yi and W. Zhang, Singapore, World Scientific, 2018, 288, $98.00 (Hardback), ISBN: 978-981-327-075-6. Scope: review. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 61(1):63–64, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2020:BRS

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Sanjuan:2020:BRV

[4071] Miguel A. F. Sanjuán. Book review: *Vibrations*, 3rd edition, by Balakumar Balachandran and Edward B. Magrab, Cambridge, UK, Cambridge University Press, 2018, 723 pp., £87.99 (hardback), ISBN: 978-1-108-42731-9. Scope: textbook, reference. Level: undergraduate, advanced undergraduate, postgraduate, teacher, engineers. *Contemporary Physics*,

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[4077] Stefano Scali. Book review: *Physical mathematics*, 2nd edition, by Kevin Cahill, Cambridge, UK, Cambridge University Press, 2019, 757 pp., £64.99 (hardback), ISBN 978-1-108-47003-2. Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate, researcher. *Contemporary Physics*, 61(2):146, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRE

[4078] Muhammad Mahmood Ali. Book review: *Experimental methods for science and engineering students: an introduction to the analysis and presentation of data*, 2nd edition. L. Kirkup, Cambridge, Cambridge University Press, 2019, 239 pp., £37.99 (hardback), ISBN: 978-1-108-41846-1. Scope: monograph, handbook, guide, textbook. Level: undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(2):146–147, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRX

[4079] Andrew Resnick. Book review: *"X-ray Microscopy"*, by Chris Jacobsen, Cambridge, UK, Cambridge University Press, University Printing House, 2020, $135, 579 pp., ISBN: 978-1-107-07657-0. Scope: Monograph. Level: advanced undergraduate student, graduate student. *Contemporary Physics*, 61(2):147–148, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRW

[4080] Andrew Resnick. Book review: *Waves and rays in seismology: answers to unasked questions*, 2nd edition, by Michael A. Slawinski, Singapore, World Scientific, 2018, 576 pp., £140 (hardback), ISBN: 978-981-3239-87-6. Scope: monograph. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 61(2):148, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2020:BRI

[4081] A. H. Harker. Book review: *Introduction to graphene-based nanomaterials: from electronic structure to quantum transport*, 2nd edition, by Luis E. F. Foa Torres, Stephan Roche and Jean-Christophe Charlier, Cambridge, UK, Cambridge University Press, 2020, 15pp. + 461pp., £74.99 (hardback), ISBN: 978-1-108-47699-7. Scope: textbook. Level: early stage researcher, postgraduate. *Contemporary Physics*, 61(2):149, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Barber:2020:BRC

[4082] David C. Barber. Book review: *The cosmic mystery tour*, by N. Mee, Oxford, Oxford University Press, 2019, 207 pp., £16.99 (hardback), ISBN: 978-019-8831-86-0. Scope: review. Level: general readership. *Contemporary Physics*, 61(2):149–150, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRE

[4083] Andrew Resnick. Book review: *The essence of crystallography*, by Mark Ladd, Singapore, World Scientific, 2020, 532 pp., £105 (hardback), ISBN: 978-178-6346315. Level: advanced undergraduate, postgraduate, early career researcher. Scope: textbook. *Contemporary Physics*, 61(2):150, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2020:BRP

[4084] Salvatore Esposito. Book review: *Physics problems for aspiring physical scientists and engineers*, by K. Riley, Cambridge, UK, Cambridge University Press, 2019, 335 pp., £24.99 (paperback), ISBN: 978-1-1087-0130-3. Scope: reference. Level: pre-university, undergraduate, teacher. *Contemporary Physics*, 61(2):150–151, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRL

[4085] Eric Howard. Book review: *Lectures on the infrared structure of gravity and gauge theory*, by A. Strominger, Princeton, New Jersey, Princeton University Press, 2018, 200 pp., £41.95 (Paperback), ISBN 978-0-691-17973-5. Scope: review. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 61(2):151–152, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2020:BRC

[4086] R. S. Shorter. Book review: *Competitive physics: mechanics and waves*, by J. Wang and B. Ricardo, Singapore, World Scientific, 2018, 832 pp., $68.00 (paperback), ISBN: 978-981-323-518-2. Scope: general interest, textbook. Level: general readership, pre-university, undergraduate. *Contemporary Physics*, 61(2):152–153, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Millen:2020:QEM

[4087] James Millen and Benjamin A. Stickler. Quantum experiments with microscale particles. *Contemporary Physics*, 61(3):155–168, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vincent:2020:IDD

[4088] U. E. Vincent and O. Kolebaje. Introduction to the dynamics of driven nonlinear systems. *Contemporary Physics*, 61(3):169–192, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nurgalieva:2020:TQT

[4089] Nuriya Nurgalieva and Renato Renner. Testing quantum theory with thought experiments. *Contemporary Physics*, 61(3):193–216, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRR

[4090] B. Ishak. Book review: *Red Dwarfs: their geological, chemical, and biological potential for life* (2nd ed.). *Contemporary Physics*, 61(3):217, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRSa

[4091] B. Ishak. Book review: *Star maps: history, artistry, and cartography*, 3rd edition, by N. Kanas, Switzerland, Springer, 2019, 563 pp, £39.99 (hardback), ISBN 978-3-030-13612-3. *Contemporary Physics*, 61(3):217, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2020:BRP

[4092] R. S. Shorter. Book review: *Principles of optics*, 7th edition — 60th anniversary edition, by M. Born and E. Wolf, Cambridge, Cambridge University Press, 2019, 992 pp., £54.99 (hardback), ISBN: 978-1-108-47743-7. *Contemporary Physics*, 61(3):217–218, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2020:BRQ

[4093] Nikolaos E. Myridis. Book review: *Quantum concepts in the social, ecological and biological sciences*, by F. Bagarello, Cambridge, Cambridge University Press, 2019, 300 pp., £59.99 (hardback), ISBN: 978-1-108-49212-6. *Contemporary Physics*, 61(3):218–219, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2020:BRT

[4094] Toni Shiroka. Book review: *Thermodynamics of magnetizing materials and superconductors*, by Vladimir Kozhevnikov, Boca Raton, CRC Press, 2019, 133 pp., £50.00 (hardback), ISBN: 978-1-138-49993-5. *Contemporary Physics*, 61(3):219–220, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2020:BRA

[4095] Toni Shiroka. Book review: *Application-driven quantum and statistical physics: a short course for future scientists and engineers, volume 2: equilibrium*, by J. M. Gillet, London, World Scientific, 2019, 314 pp., \$45.00 (paperback), ISBN: 978-178-6347-03-9. *Contemporary Physics*,

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Shiroka:2020:BRI

[4096] Toni Shiroka. Book review: *Introduction to solid state physics*, by A. Aharony and O. Entin-Wohlman, Singapore, World Scientific, 2018, 640 pp., $148.00 (hardback), ISBN: 978-981-3272-24-8. *Contemporary Physics*, 61(3):221–222, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2020:BRM

[4097] Robert S. MacKay. Book review: *Modern thermodynamics for chemists and biochemists*, by D. Sherwood and P. Dalby, Oxford, Oxford University Press, 2018, 912 pp., £45 (paperback), ISBN: 978-0-19-878470-8. *Contemporary Physics*, 61(3):222–223, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRT

[4098] Eric Howard. Book review: *Topological phase transitions and new developments*, by Lars Brink, Mike Gunn, Jorge V Jose, John Michael Kosterlitz and Kok Khoo Phua, Singapore, World Scientific, 2018, 264 pp., $78.00 (hardback), ISBN: 978-981-327-133-3. *Contemporary Physics*, 61(3):224, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2020:BRC

[4099] Nikolaos E. Myridis. Book review: *Complexity science: an introduction*, edited by M. A. Peletier, R. A. van Santen, and E. Steur, Singapore, World Scientific, 2019, 428 pp., £120.00 (hardback), ISBN 978-981-323-959-3. *Contemporary Physics*, 61(3):224–226, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2020:BRE

[4100] Francisco Caruso. Book review: *Ether and modernity*, edited by J. Navarro, Oxford, UK, Oxford University Press, 2018, 272 pp., £65.00 (hardback), ISBN 978-0-19-879725-8. *Contemporary Physics*, 61(3):226–227, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McIver:2020:DGW

[4101] Jess McIver and D. H. Shoemaker. Discovering gravitational waves with Advanced LIGO. *Contemporary Physics*, 61(4):229–255, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

White:2020:HCD

[4102] D. R. White. Hot and cold: defining and measuring temperature. *Contemporary Physics*, 61(4):256–276, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Campugan:2020:OMS

[4103] Carl A. Campugan, Kylie R. Dunning, and Kishan Dholakia. Optical manipulation: a step change for biomedical science. *Contemporary Physics*, 61(4):277–294, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

delaTorre:2020:CBE

[4104] Laura de la Torre and Juan A. Añel. Connections between the earth's atmosphere and its magnetosphere. *Contemporary Physics*, 61(4):295–297, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRSb

[4105] B. Ishak. Book review: *A student's guide to the Schrödinger equation*, by Daniel A. Fleisch, Cambridge University Press, 2020, $24.99 (Paperback), ISBN 978-1-108-81978-7. Scope: guide, textbook. Level: advanced undergraduate. *Contemporary Physics*, 61(4):298, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRP

[4106] Muhammad Mahmood Ali and Gabriel Leen. Book review: *From photons to atoms: the electromagnetic nature of matter*, by D. Funaro, Singapore, World Scientific Publishing Co. Pte. Ltd., 2019, 296 pp., £95.00 (hardback), ISBN: 978-981-12-0423-4. Scope: reference, monograph, general interest. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(4): 298–299, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2020:BRP

[4107] Robert S. MacKay. Book review: *The physics of gamma-ray bursts*, by Bing Zhang, Cambridge, Cambridge University Press, 2019, 579 pp., $79.99 (hardback), ISBN 978-1-107-02761-9. Scope: monograph, Level: researchers. *Contemporary Physics*, 61(4):299–300, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRM

[4108] Eric Howard. Book review: *Modified gravity: progresses and outlook of theories, numerical techniques and observational tests*, edited by Baojiu Li and Kazuya Koyama, Singapore, World Scientific, 2019, 313 pp., $98 (hardback), ISBN: 978-981-327-399-3. Scope: review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(4): 300–301, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tennyson:2020:BRC

[4109] Jonathan Tennyson. Book review: *The crowd & the cosmos: adventures in the Zooniverse*, by C. Lintott, Oxford, Oxford University Press, 2019, 265 pp., £20 (hardback), ISBN: 978-0-19-884222-4. Scope: general interest. Level: general readership. *Contemporary Physics*, 61(4): 301–302, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2020:BRIb

[4110] Stephen H. Ashworth. Book review: *The iodine molecule: insights into intra- and intermolecular perturbation in diatomic molecules*, by S. Lukashov, A. Petrov, and A. Pravilov, Cham, Springer, 2018, 199 pp., £74.99 (hardback), ISBN: 978-3-319-70071-7. Scope: review. Level: researcher. Specialist. Scientist. *Contemporary Physics*, 61(4):302–303, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2020:BRM

[4111] Chih-Yueh Wang. Book review: *Measurements, mechanisms, and models of heat transport*, by A. M. Hofmeister, Elsevier, 2018, 440 pp., £65.41 (paperback), ISBN 978-0-12-809981-0. Scope: monograph. Level: postgraduate, researcher, scientist. *Contemporary Physics*, 61(4):303–304, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRAa

[4112] David J. Miller. Book review: *Astronomical spectroscopy: an introduction to the atomic and molecular physics of astronomical spectroscopy*, by J. Tennyson, Singapore, World Scientific, 2019, 264 pp., £33.00 (paperback), ISBN 978-1-78634-707-7. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 61(4):304, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2020:BRM

[4113] Francisco Caruso. Book review: *The Majorana Case: letters, documents, testimonies*, by Erasmo Recami, Singapore, World Scientific, 2020, 400 pp., £29.90 (paperback), ISBN 978-981-12-0769-3. Scope: book, general interest. Level: undergraduate, advanced undergraduate, postgraduate, early career research, historian of science, teacher, and specialist. *Contemporary Physics*, 61(4):304–305, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRAb

[4114] David J. Miller. Book review: *About stars: their formation, evolution, compositions, locations and companions*, by Michael M. Woolfson, Singapore, World Scientific, 2019, $78/£75 (hardback), $38/£35 (paperback), ISBN 978-1-78634-712-1 (hardback), 978-1-78634-725-1 (paperback). Scope: textbook, with problems and specimen answers. Level: Physics or Astronomy students or professionals. *Contemporary Physics*, 61(4):305–307, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRSa

[4115] David J. Miller. Book review: *The sun today*, by Claudio Vita-Finzi, Cham, Switzerland, Springer, 2018, 111 pp., £9.99 (paperback), ISBN 978-3-030-04078-9. Scope: general interest. Level: general readership. *Contemporary Physics*, 61(4):307, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2020:BRMb

[4116] Manuel Vogel. Book review: *Molecules in electromagnetic fields: from ultracold physics to controlled chemistry*, by R. V. Krems, New York, Wiley, 2018, 384 pp., £110.00 (hardback), ISBN: 978-1-118-17361-9. Scope: monograph. Level: postgraduate, researcher, scientist. *Contemporary Physics*, 61(4):307–308, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRSb

[4117] David J. Miller. Book review: *Stephen Hawking; a memoir of friendship and physics*, by Leonard Mlodinow, New York, Allen Lane, 2020, 240 pp., £20.00 (Hardback), ISBN: 978-0-241-41113-1. Scope: biography, with added science. Level: general readers, undergraduates, high school students. *Contemporary Physics*, 61(4):308–309, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Cassidy:2020:BRI

[4118] David Cassidy. Book review: *An introduction to cold and ultracold chemistry: atoms, molecules, ions and Rydbergs*, by Jesús Pérez Ríos, Cham, Springer, 2020, 267 pp., £59.99 (E-Book), ISBN: 978-3-030-55936-6. Scope: text book. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(4):309–310, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRS

[4119] Eric Howard. Book review: *Synthetic spin-orbit coupling in cold atoms*, edited by Wei Zhang, Wei Li and Carlos A. R. Sá Melo, Singapore, World Scientific, 2018, 308 pp., £84.10 (hardback), ISBN: 978-981-327-252-1. Scope: review. Level: early career researcher, researcher. *Contemporary Physics*, 61(4):310, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRC

[4120] Muhammad Mahmood Ali. Book review: *Computational acoustics: theory and implementation*, by D. R. Bergman, Hoboken, NJ, Wiley, 2018, 296 pp., £99.95 (hardcover), ISBN: 978-1-119-27728-6. Scope: reference, guide, general interest, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(4):310–311, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pospisil:2020:BRP

[4121] Christina Pospisil. Book review: *Principles of space-time-matter: cosmology, particles and waves in five dimensions*, by P. S. Wesson and J. M. Overduin, Singapore, World Scientific, 2019, 262 pp., £85.00 (Hardback), ISBN: 978-981-323-577-9. Scope: review. Level: early career researcher. *Contemporary Physics*, 61(4):311–312, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2020:BRE

[4122] Matt Probert. Book review: *Electronic structure: basic theory and practical methods*, 2nd edition, by Richard M. Martin, Cambridge, Cambridge University Press, 2020, £64.99, ISBN 978-1-108-42990-0. Level: postgraduate, early career researcher, researcher. Scope: reference text. *Contemporary Physics*, 61(4):312, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2020:BRO

[4123] Peter J. Bussey. Book review: *Origin and evolution of the universe. From Big Bang to exobiology*, 2nd edition, edited by M. A. Malkan and B. Zuckerman, Singapore, World Scientific, 2020, xiv + 232 pp., £75 (hardback), £30 (softback), ISBN 978-981-12-0645-0. Level: undergraduate, teacher. Scope: guide, edited book. *Contemporary Physics*, 61(4): 312–313, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lukishova:2021:IRP

[4124] Svetlana G. Lukishova, Anatoly V. Masalov, and Victor N. Zadkov. Icons of Russian physics: From the Lebedev Scientific School in Physics to the Lebedev Physical Institute. *Contemporary Physics*, 62(1):1–13, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rose:2021:ADA

[4125] S. J. Rose and P. W. Hatfield. Astronomy domine: advancing science with a burning plasma. *Contemporary Physics*, 62(1):14–23, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

English:2021:DTF

[4126] Elizabeth Laier English, Ali Ashkhasi, and Peter Whibberley. Distributing time by fibre. *Contemporary Physics*, 62(1):24–38, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:MPP

[4127] Peter J. Bussey. Multiverse — physics or philosophy? *Contemporary Physics*, 62(1):39–41, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:PMP

[4128] Chih-Yueh Wang. Principia and magnificent Principia. *Contemporary Physics*, 62(1):42–45, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2021:BRM

[4129] Miguel A. F. Sanjuán. Book review: A modern approach to teaching classical mechanics: A review of *Modern classical mechanics* by T. M. Helliwell and V. V. Sahakian, Cambridge, Cambridge University Press, 2020, 704 pp., £56.00, (hardback), ISBN 978-1-108-83497-1. *Contemporary Physics*, 62(1):46–49, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRPa

[4130] A. H. Harker. Book review: *The physics of graphene*, 2nd edition, by Mikhail I. Katsnelson, Cambridge, UK, Cambridge University Press, 2020, 436 pp., $84.99 (hardback), ISBN: 978-1-108-47164-0. *Contemporary Physics*, 62(1):50, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pospisil:2021:BRS

[4131] Christina Pospisil. Book review: *String theory in a nutshell*, 2nd edition, edited by Elias Kiritsis, Princeton University Press, 2019, 888 pp., $95 (hardback), ISBN 978-0-691-15579-1. *Contemporary Physics*, 62(1): 50–51, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Aczel:2021:BRP

[4132] Miriam R. Aczel. Book review: *Practical alchemy: a memoir*, Walter A. Harrison, Hackensack, NJ, World Scientific, 2018, 176 pp., $28.00 (paperback), ISBN: 978-981-327-831-8. *Contemporary Physics*, 62(1): 51–52, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Aczel:2021:BRC

[4133] Miriam R. Aczel. Book review: *The cosmos: astronomy in the new millennium*, 5th edition. *Contemporary Physics*, 62(1):52–53, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRM

[4134] Peter J. Bussey. Book review: *Modern quantum mechanics*. *Contemporary Physics*, 62(1):53–54, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bengtsson:2021:BRD

[4135] Ingemar Bengtsson. Book review: *The discovery of cosmic voids* by Laird A. Thompson, Cambridge, Cambridge University Press, 2020, 290 pp., £39.99 (hardback), ISBN 978-1-108-49113-6. *Contemporary Physics*, 62 (1):54, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRNa

[4136] Manuel Vogel. Book review: *The NASA Kepler mission*, edited by Steve B. Howell, Bristol, IOP Publishing, 2020, 272 pp., $190 (hardback), ISBN

978-0-7503-2294-2. *Contemporary Physics*, 62(1):55, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2021:BRQ

[4137] Stephen H. Ashworth. Book review: *Quantum space*, y Jim Baggott, Oxford, Oxford University Press, 2018, £20.00 (hardback), ISBN 978-0-19-880911-1. *Contemporary Physics*, 62(1):55–56, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gaunt:2021:BRC

[4138] Jonathan Richard Gaunt. Book review: *Coherent states in gauge theories and applications in collider physics*, by M. Greco, World Scientific, 2019, 172 pp., £75 (Hardback), ISBN: 978-981-12-1389-2. *Contemporary Physics*, 62(1):56–57, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2021:BRI

[4139] Mario Bertolotti. Book review: *An introduction to quantum optics: an open system approach*, by Perry Rice, Bristol, UK, IoP Publishing, 2020, xii+225 pp. with figures, $95.00 (e-book), ISBN 978-0-7503-1713-9. *Contemporary Physics*, 62(1):57–58, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2021:BRE

[4140] Mario Bertolotti. Book review: *Electromagnetic waves and lasers*, 2nd edition, by Wayne D. Kimura, IOP Science, Bristol, UK, 2020, xv + 142 pp. with figures, $159.00 (paperback/hardback), ISBN: 978-0-7503-3521-8. *Contemporary Physics*, 62(1):58, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2021:BRS

[4141] Eric Howard. Book review: *Semiclassical and stochastic gravity: quantum field effects on curved spacetime*, Bei-Lok B. Hu and Enric Verdaguer, Cambridge, Cambridge University Press, 2020, 614 pp., £155.00 (hardback), ISBN: 978-0-521-19357-3. *Contemporary Physics*, 62(1):58–59, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRB

[4142] R. S. Shorter. Book review: *The Bohr atom: a guide*, by Bruce Cameron Reed, Bristol, IOP Science, 2020, 104 pp., $159.00 (E-book), Online ISBN 978-0-7503-3611-6; Print ISBN: 978-0-7503-3609-3. *Contemporary*

Physics, 62(1):59, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

DeAngelis:2021:BRC

[4143] Alessandro De Angelis. Book review: *Cosmic messengers: the limits of astronomy in an unruly universe*, by Martin Harwit, Cambridge, Cambridge University Press, 2021, 396 pp., $32.00 (E-Book), ISBN: 978-1-108-90616-6. *Contemporary Physics*, 62(1):59–61, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2021:BRP

[4144] Jesus Rogel-Salazar. Book review: *Physics of digital photography*, 2nd edition, by Andy Rowlands, Bristol, UK, IOP Science, 2020, 165 pp., $159.00 (E-Book), ISBN: 978-0-7503-2558-5. *Contemporary Physics*, 62 (1):61, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Volpe:2021:BRD

[4145] Giovanni Volpe. Book review: *Don't be afraid of physics: quantum mechanics, relativity and cosmology for everyone*, by Ross Barrett and Pier Paolo Delsanto, Cham, Switzerland, Springer Nature, 2021, 293 pp., £17.99 (e-book), ISBN 978-3-030-63409-4. *Contemporary Physics*, 62 (1):61–62, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2021:BRI

[4146] B. Ishak. Book review: *Introduction to galaxy formation and evolution: from primordial gas to present-day galaxies*, by Andrea Cimatti, Filippo Fraternali, and Carlo Nipoti, Cambridge, Cambridge University Press, 2019, 582 pages, $69.99 (hardback), ISBN: 978-1-107-13476-8. *Contemporary Physics*, 62(1):62, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRM

[4147] R. S. Shorter. Book review: *Modern physics: a critical approach*, edited by Canio Noce, Bristol, Institute of Physics Publishing, 2020, 450 pp., £64 (hardback), ISBN: 978-0-7503-2676-6. *Contemporary Physics*, 62 (1):62–63, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRPa

[4148] Mogadalai P. Gururajan. Book review: *Probability and statistics in the physical sciences*, 3rd edition, by Byron P. Roe, New York, Springer

Nature Switzerland, 2020, 285 pp., EUR 46 (e-book), ISBN: 978-3-030-53693-0. *Contemporary Physics*, 62(1):63–64, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Andrews:2021:BRM

[4149] David Andrews. Book review: *Mind and the cosmic order: how the mind creates the features & structure of all things, and why this insight transforms physics*, by Charles Pinter, Springer, ISBN: 978-3-030-50083-2 (e-book). *Contemporary Physics*, 62(1):64–65, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2021:BRP

[4150] Nigel John Mason. Book review: *Planetary diversity: rocky planet processes and their observational signatures*, y Elizabeth J. Tasker, Yuka Fujii, Matthieu Laneuville, Cayman Unterborn, Steven J. Desch and Hilairy E. Hartnett, IOP Publishing, 2020, 266 pp., $159.00 (e-book), ISBN: 978-0-7503-2140-2. *Contemporary Physics*, 62(1):65–66, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRL

[4151] N. E. Myridis. Book review: *The large-scale structure of the Universe*, by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton University Press, 2020, 448 pp., £50.00 (paperback), ISBN: 978-0-691-20983-8. *Contemporary Physics*, 62(1):66–67, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Morozov:2021:SPD

[4152] Dmitry V. Morozov, Alessandro Casaburi, and Robert H. Hadfield. Superconducting photon detectors. *Contemporary Physics*, 62(2):69–91, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zuk:2021:BIC

[4153] Paweł Jan Zuk. A brief introduction to contemporary electrokinetics. *Contemporary Physics*, 62(2):92–104, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRD

[4154] Peter J. Bussey. Book review: *Do wave functions jump? Perspectives of the work of GianCarlo Ghirardi* edited by Valia Allori, Angelo Bassi, Detlef Dürr, and Nino Zanghi, Cham, CH, Springer Nature Switzerland, 2021, xv + 436 pp., £87.50 (hardcover), ISBN 978-3-0304-6776-0/

ISBN 978-3-0304-6777-7 (e-book). Scope: article collection. Level: early career researcher, specialist, scientist. *Contemporary Physics*, 62(2):105–106, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2021:BRN

[4155] Salvatore Esposito. Book review: *The neutrino story: one tiny particle's grand role in the cosmos* by Rabindra N. Mohapatra, Cham, Switzerland, Springer, 2021, xvi+222 pp., £17.99 (E-Book), ISBN 978-3-0305-1846-2. Scope: monograph, general interest. Level: non-specialists, undergraduate, specialist, scientist. *Contemporary Physics*, 62(2):106–107, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRE

[4156] A. H. Harker. Book review: *The equations of materials* by Brian Cantor, Oxford, Oxford University Press, 2020, 19 + 307pp., £59.99 (hardback), £29.99 (paperback), ISBN 978-0-19-885187-5 (hbk)/978-0-19-885188-2 (pbk). Scope: general interest. Level: pre-university, undergraduate. *Contemporary Physics*, 62(2):107, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2021:BRC

[4157] Robert S. MacKay. Book review: *The cosmic microwave background*, 2nd edition, by Ruth Durrer, Cambridge, UK, Cambridge University Press, 2021, 510 pp., £47.61 (hardback), ISBN 978-1-107-13522-2. Scope: textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):107–108, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRPa

[4158] David J. Miller. Book review: *Particle detectors: fundamentals and applications* by Hermann Kolanoski and Norbert Wermes, New York, Oxford University Press, 2020, 944 pp., $100 (Hardback), ISBN 978-0-19-885836-2. Scope: monograph. Level: graduate. *Contemporary Physics*, 62(2):108–109, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRA

[4159] David J. Miller. Book review: *Advances in nuclear physics: structure and reactions* edited by R.K. Puri, J. Aichelin, S. Gautam and R. Kumar, Springer Nature, 2020, 273 pp., £129.99 (hardback), ISBN 978-981-1590-61-0. Scope: conference proceedings. Level: researcher. *Contempo-*

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Miller:2021:BRPb

[4160] David J. Miller. Book review: *The physics of the dark photon: a primer* by Marco Fabbrichesi, Emidio Gabrielli and Gaia Lanfranchi, Cham, Springer Nature, 2021, 78 pp., £44.99 (paperback), ISBN: 978-3-030-62518-4. Scope: review. Level: researcher. *Contemporary Physics*, 62 (2):110, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRC

[4161] David J. Miller. Book review: *Classical mechanics: a professor–student collaboration* edited by Mario Campanelli, Bristol, IOP Science, 2020, 376 pp., £99.00 (hardback), ISBN: 978-0-7503-2688-9. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 62(2):110–111, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRS

[4162] A. H. Harker. Book review: *Semiconductor physics: principles, theory and nanoscale* by S. Tiwari, Oxford, Oxford University Press, 2020, 19 + 803 pp., £65.00 (hardback), ISBN 978-0-19-875986-7. Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(2): 111–112, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Halttunen:2021:BRA

[4163] Krista Halttunen. Book review: *The advent of relativity* by Voldemar Smilga, Singapore, World Scientific, 2021, 352 pp., £60.00 (hardback), ISBN: 978-981-12-3114-8. Scope: monograph. Level: pre-university. *Contemporary Physics*, 62(2):112, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Osborn:2021:BRQ

[4164] H. Osborn. Book review: *From quarks to pions: chiral symmetry and confinement* by M. Creutz, World Scientific, 2018, 216 pp., £75 (hardback), ISBN: 978-981-322-923-5. Scope: monograph. Level: postgraduate. *Contemporary Physics*, 62(2):113, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lakshminarayanan:2021:BRH

[4165] Vasudevan Lakshminarayanan. Book review: *The handbook of medical image perception and techniques*, 2nd edition, by E. Samei and E.

A. Krupinski, Cambridge, UK, Cambridge University Press, 2018, 522 pp., £120.00 (hardback), ISBN: 978-1-107-19488-5. Scope: handbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 62(2):113–114, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2021:BRA

[4166] Stefano Scali. Book review: *Advanced quantum condensed matter physics: one-body, many-body, and topological perspectives* by Michael El-Batanouny, Cambridge, Cambridge University Press, 2020, £69.99 (hardback), ISBN: 978-1-108-48084-0. Scope: reference, textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):114–115, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2021:BRG

[4167] Stefano Scali. Book review: *Group theory for physicists*, 2nd edition, by Zhong-Qi Ma, Hackensack, NJ, World Scientific, 2019, 656 pp., £115 (paperback), ISBN: 978-981-327-796-0. Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):115–116, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:BRR

[4168] Chih-Yueh Wang. Book review: *Relativistic fluid dynamics in and out of equilibrium: and applications to relativistic nuclear collisions* by Paul Romatschke and Ulrike Romatschke, Cambridge, Cambridge University Press, 2019, 204 pp., US$140.00 (hardcover), ISBN-13: 978-1-108-48368-1. Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 62(2):116, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRI

[4169] Andrew Resnick. Book review: *An introduction to fluorescence correlation spectroscopy* by Thorsten Wohland, Radek Machán, and Sudipta Maiti, Bristol, IOP Publishing Ltd, 2020, 300 pages, $190.00, ISBN: 978-0-7503-2078-8. Scope: textbook, handbook. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 62(2):117, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRS

[4170] Andrew Resnick. Book review: *Stigmatic optics* by Rafael G. González-Acuña and Héctor A. Chaparro-Romo, Bristol, IOP Publishing Ltd, 2020, 308 pages, $190.00, ISBN-13: 978-0-7503-3461-7, ISBN-10: 0-7503-3461-4. Scope: textbook, handbook. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 62 (2):117–118, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRP

[4171] R. S. Shorter. Book review: *The physics of the Manhattan Project* by Bruce Cameron Reed, New York, Springer, Nature Switzerland AG, 2021, 256 pp., £43.99 (e-book), ISBN: 978-3-030-61372-3. Scope: general interest, textbook. Level: general readership, undergraduate, teacher. *Contemporary Physics*, 62(2):118, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRE

[4172] Manuel Vogel. Book review: *Electrons in motion: attosecond physics explores fastest dynamics* by F. Krausz, Singapore, World Scientific, 2019, 536 pp., $175 (hardback), ISBN: 978-981-12-0186-8. Scope: article collection. Level: researcher, specialist. *Contemporary Physics*, 62(2):119, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gershon:2021:BRP

[4173] Tim Gershon. Book review: *Particle–antiparticle asymmetry in the meson system* by Hiroaki Aihara, IOP Science, 2020, $190.00 (hardback), ISBN: 978-0-7503-3649-9, $159.00 (ebook), ISBN: 978-0-7503-3651-2. Scope: reference material, appropriate for undergraduate level. *Contemporary Physics*, 62(2):119–120, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shotter:2021:BRE

[4174] A. C. Shotter. Book review: *Essentials of nucleosynthesis and theoretical nuclear astrophysics* by Thomas Rauscher, Bristol, IOP Science, 2020, $190.00 (Hardback), 397 pp., ISBN 978-0-7503-1150-2. Level: advanced undergraduate, postgraduate, early career researcher, researcher. Scope: reference. *Contemporary Physics*, 62(2):120–121, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Volpe:2021:BRS

[4175] Giovanni Volpe. Book review: *Statistical mechanics: entropy, order parameters, and complexity* 2nd edition, by James P. Sethna, Oxford, Oxford University Press, 2021, 496pp., £58.99 (paperback), ISBN 978-0-19-886524-7. Scope: textbook. Level: undergraduate, postgraduate, advanced undergraduate. *Contemporary Physics*, 62(2):121–122, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRR

[4176] Dr. Manuel Vogel. Book review: *Relativity and cosmology: volume 5 of modern classical physics* by Kip S. Thorne and Roger D. Blandford, Princeton, Princeton University Press, 2021, 416 pp., £48 (softcover), ISBN: 978-0-691-20739-1. Scope: textbook. Level: advanced undergraduates. *Contemporary Physics*, 62(2):122, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRI

[4177] Peter J. Bussey. Book review: *Introduction to the standard model and beyond: quantum field theory, symmetries and phenomenology* by Stuart Raby, Cambridge, Cambridge University Press, 2021, xvi+619 pp., £60 (hardback), ISBN 978-1-108-49,419-9. Scope: textbook. Level: postgraduate. *Contemporary Physics*, 62(2):123, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRC

[4178] Mogadalai P. Gururajan. Book review: *Continuum mechanics of solids* by Lallit Anand and Sanjay Govindjee, Oxford, UK, Oxford University Press, 2020, 736 pp., £65.00 (hardback), ISBN: 978-0-19-886472-1. Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, engineers. *Contemporary Physics*, 62(2): 123–124, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Barnes:2021:PCE

[4179] Samuel J. K. Barnes and Aneta Stefanovska. Physics of cellular energy metabolism. *Contemporary Physics*, 62(3):125–143, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kumar:2021:SCI

[4180] Sunil Kumar, Manoj Kumar, and Amarjeet Singh. Synthesis and characterization of iron oxide nanoparticles (Fe_2O_3, Fe_3O_4): a brief review.

Contemporary Physics, 62(3):144–164, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Palti:2021:SST

[4181] Eran Palti. The swampland and string theory. *Contemporary Physics*, 62(3):165–179, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRG

[4182] Peter J. Bussey. Book review: *General relativity: the essentials* by Carlo Rovelli, Cambridge, Cambridge University Press, 2021, x+170 pp., £14.99 (paperback), ISBN 978-1-009-01369-7. Scope: textbook. Level: postgraduate. *Contemporary Physics*, 62(3):180, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2021:BRO

[4183] Peter J. Dobson. Book review: *Optical materials*, 2nd edition by Kelly Potter and Joseph Simmons, USA, Elsevier, 2020, 530 pp., £125-£155 (paperback) (E-Book), ISBN: 978-0-12-818642-8. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 62(3): 180–181, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRSa

[4184] Peter J. Bussey. Book review: *Statistical Physics*, vol. 1 of *Modern Classical Physics* by Kip S. Thorne and Roger D. Blandford, Princeton, Princeton University Press, 2021, xxii+384 pp., £40 (paperback), ISBN 978-0-691-20612-7. Level: advanced undergraduate, postgraduate. scope: textbook. *Contemporary Physics*, 62(3):181–182, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:BRC

[4185] Chih-Yueh Wang. Book review: *Computational statistical physics* by Lucas Böttcher and Hans J. Herrmann, Cambridge, UK, Cambridge University Press, 2021, 257 pp., US$59.99 (E-book), ISBN 978-1-108-84142-9. Scope: textbook. Level: advanced undergraduate, postgraduate, early-career researcher, researcher, scientist, engineers. *Contemporary Physics*, 62(3):182–183, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2021:BRS

[4186] Nigel John Mason. Book review: *Space science and public engagement: 21st century perspectives and opportunities* by Amy

Kaminski, Elsevier, 2021, 298 pp., $69.95 (E-Book), ISBN: 978-0-12-817390-9, https://www.elsevier.com/books/space-science-and-public-engagement/kaminski/978-0-12-817390-9. Scope: review. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 62(3):183–184, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2021:BRE

[4187] M. Jamil. Book review: *Exploring classical mechanics: a collection of 350+ solved problems for students, lecturers, and researchers*, 2nd revised and enlarged English edition by G. L. Kotkin and V. G. Serbo, Oxford, UK, Oxford University Press, 2020, 400 pp., £29.99 (E-Book), ISBN: 978-0-19-885379-4. Scope: monograph, handbook, guide. Level: undergraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 62(3):184–185, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2021:BRT

[4188] Miguel A. F. Sanjuán. Book review: *Thermodynamics and statistical mechanics. An introduction for physicists and engineers* by Samya Zain, Bristol, IOP Publishing, 2021, 372 pp., £99 (hardback), ISBN: 978-0-7503-3083-1, 978-0-7503-3081-7. Scope: textbook. Level: undergraduate, advanced undergraduate, teacher, engineers. *Contemporary Physics*, 62 (3):185, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRT

[4189] Andrew Resnick. Book review: *Thermodynamics: principles characterising physical and chemical processes*, 5th edition by Jurgen Honig, London, Elsevier, 2020, $190 (E-Book), ISBN: 978-0-12-821940-9. Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, scientist. *Contemporary Physics*, 62(3):185–186, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRE

[4190] Mogadalai P. Gururajan. Book review: *Elasticity & fluid dynamics*, 1st edition by Kip S. Thorne and Roger D. Blandford, Series: Volume 3 of Modern Classical Physics, Princeton, USA, Princeton University Press, 2021, 450 pp. (565–1014), 50 USD (paperback), ISBN 978-0-691-20734-6. Scope: reference, textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, scientist, engineers.

Contemporary Physics, 62(3):186–187, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRSb

[4191] Peter J. Bussey. Book review: *Seven fundamental concepts in spacetime physics* by Vesselin Petkov, Cham, CH, Springer International Publishing, 2021, xix + 81 pp., £50 (paperback), ISBN: 978-3-030-75638-3. Scope: monograph. Level: scientist. *Contemporary Physics*, 62(3): 187–188, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Xie:2021:MTP

[4192] Songbo Xie and J. H. Eberly. Managing the three-party entanglement challenge. *Contemporary Physics*, 62(4):189–198, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jiang:2021:PMB

[4193] Xiangqian Jiang and Andrew Henning. Precision metrology: from bulk optics towards metasurface optics. *Contemporary Physics*, 62(4):199–216, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rider:2021:SNL

[4194] M. S. Rider and W. L. Barnes. Something from nothing: linking molecules with virtual light. *Contemporary Physics*, 62(4):217–232, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:RP

[4195] Peter J. Bussey. Resolving a paradox. *Contemporary Physics*, 62(4): 233–235, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2021:BRQ

[4196] Eric Howard. Book review: *The quantum universe: essays on quantum mechanics, quantum cosmology, and physics in general* by James B. Hartle, Singapore, World Scientific, 2021, 624 pp., £110.00 (E-Book), ISBN: 978-981-12-1634-3. Scope: edited book. Level: early career researcher. *Contemporary Physics*, 62(4):236, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2021:BRM

[4197] Matt Probert. Book review: *Machine learning with neural networks: an introduction for scientists and engineers* by Bernhard Mehlig, Cambridge, UK, Cambridge University Press, 2021, 249 pp., £39.99 (hardback), ISBN: 978-1-108-49493-9. Scope: monograph, textbook. Level: postgraduate, researcher. *Contemporary Physics*, 62(4):236–237, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRPb

[4198] Mogadalai P. Gururajan. Book review: *Physics of elasticity and crystal defects* Oxford series on materials modelling, by Adrian P. Sutton, Oxford, Oxford University Press, 2020, 288 pp., £45.00 (hardback), ISBN: 978-0-19-886078-5. Scope: monograph, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 62(4):237–238, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2021:BRI

[4199] Mohit Sharma. Book review: *Introduction to quantum nanotechnology: a problem focused approach* by Duncan G. Steel, Oxford, UK, Oxford University Press, 2021, 370 pp., £65.00 (hardback), ISBN 978-0-19-289507-3. Scope: reference, review. Level: postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 62(4): 238–239, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRC

[4200] Nikolaos E. Myridis. Book review: *Cosmology's century: an inside history of our modern understanding of the universe* Physics & Astronomy, by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton, NJ, Princeton University Press, 2020, 440 pp., $28.00 (hardback), ISBN (e-book) 978-0-691-20166-5. Scope: monograph. Level: non-specialists, undergraduate, advanced undergraduate, postgraduate, researcher, teacher, specialist, scientist. *Contemporary Physics*, 62(4):239–240, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2021:BRH

[4201] Jack Reid. Book review: *A handbook of mathematical methods and problem-solving tools for introductory physics* (second edition) by Joshua F. Whitney, Heather M. Whitney, IOP Science, Bristol, Institute of Physics Publishing, 2021, $120.00 (hardback), $90.00 (e-book), E-Book (https://store.ioppublishing.org/page/detail/A-Handbook-of-Mathematical-Methods-and-ProblemSolving-Tools-for-Introductory-Physics-Second-Edition/?K=9780750333993), ISBN 978-0-7503-3399-3. Scope: handbook. Level: undergraduate. *Contemporary Physics*, 62(4):240–241,

2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2021:BRU

[4202] Michael Belsley. Book review: *Ultrafast lasers and optics for experimentalists* by James David Pickering, Bristol, UK, IOP Science, 2021, 157 pp., ISBN 978-0-7503-3659-8. Scope: handbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 62(4):241–242, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRPb

[4203] A. H. Harker. Book review: *Principles of materials characterization and metrology* by Kannan M. Krishnan, Oxford, UK, Oxford University Press, 2021, 20 + 849 pp., ISBN 978-0-19-883025-2 (hbk), ISBN 978-0-19-883026-9 (pbk). Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(4):242, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRN

[4204] A. H. Harker. Book review: *Nuclear materials science*, 2nd edition by Karl Whittle, IOP Publishing Ltd, 2020, 218 pp., ISBN: 978-0-7503-2376-5 (ebook), ISBN: 978-0-7503-2374-1 (print). Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(4):242–243, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRP

[4205] Nikolaos E. Myridis. Book review: *Principles of physical Cosmology* by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton, NJ, Princeton University Press, 2020, 774 pp., £62.00 (e-book), ISBN 978-0-691-20672-1. Princeton series in physics & astronomy. Scope: reference. Level: non-specialists, advanced undergraduate, postgraduate, researcher, teacher, specialist, scientist. *Contemporary Physics*, 62(4): 243–244, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Boyack:2021:BRE

[4206] Rufus Boyack. Book review: *Electrostatics of conducting cylinders and spheres* by John Lekner, Melville, NY, AIP Publishing, 2021, 240 pp., $135 (paperback), https://doi.org/10.1063/9780735423350, ISBN: 978-0-7354-2332-9. Scope: monograph. Level: scientist. *Contemporary Physics*, 62(4):244–245, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRNb

[4207] Manuel Vogel. Book review: *Nuclear data — a primer* by David G. Jenkins and John L. Wood, Bristol, UK, IOP Publishing, 2021, 198 pp., USD 190 (hardcover), ISBN 978-0-7503-2672-8. Scope: textbook. Level: advanced undergraduates and above. *Contemporary Physics*, 62(4):245–246, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4210] Stephen J. Blundell. Book review: *Theory of simple glasses: exact solutions in infinite dimensions* by Giorgio Parisi, Pierfrancesco Urbani and Francesco Zamponi, Cambridge University Press, 2020, 349 pages, £62.99 (hardcover), ISBN: 978-1-108-12049-4. Level: researcher. Scope: textbook. *Contemporary Physics*, 62(4):247–248, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4215] Manuel Vogel. Book review: *Synchrotron radiation: sources and applications to the structural and electronic properties of materials* by D. Phil Woodruff, Cambridge, Cambridge University Press, 2021, 450 pp., £74.99 (hardback), ISBN: 978-1-316-99574-7. Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 63(1):61, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sivakumar:2022:BRQ

[4216] Srinivasan Sivakumar. Book review: *Quantum information processing, quantum computing, and quantum error correction: an engineering approach*, 2nd edition by Ivan Djordjevic, Elsevier, 2021, 838 pp., $125.00 (paperback), ISBN 978-0-12-821987-4. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 63(1):61–62, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4221] Peter J. Bussey. Book review: *Exofrontiers: big questions in exoplanetary science* edited by N. Madhusudhan, Bristol, IOP Publishing, 2021, xxi+ 287 pp., £108 (hardback), ISBN 978-0-7503-1470-1. Scope: article collection. Level: researcher. *Contemporary Physics*, 63(1):65–66, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2022:BRD

[4222] A. H. Harker. Book review: *Dimensional analysis: the great principle of similitude* by Jeffrey H. Williams, Bristol, UK, IOP Publishing Ltd, 2021, 20 + 223 pp., £120 (hardback), ISBN 978-0-7503-3653-6; £99 (e-book), ISBN 978-0-7503-3655-0. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 63(1):66–67, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4223] Jack Reid. Book review: *The ABCs of High-Pressure Science* by Sergei M. Stishov, London, World Scientific Publishing, 2021, £40.00 (hardback), ISBN: 978-1-78634-955-2. Scope: reference. Level: general readership. *Contemporary Physics*, 63(1):67, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4225] Stephen H. Ashworth. Book review: *The science of learning physics* by José P. Mestre and Jennifer L. Docktor, Singapore, World Scientific, 2021, 212 pp., £50.00 (hardback), ISBN 978-981-12-2654-0. also available as softback and ebook. Level: teacher, specialist. Scope: review. *Contemporary Physics*, 63(1):69, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4230] Samuel Lellouch, Kai Bongs, and Michael Holynski. Using atom interferometry to measure gravity. *Contemporary Physics*, 63(2):138–155, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4231] Thomas J. Bridges. Book review: *Mechanics of fluid deformations in rigid body rotations and plane channel F* by Oleg V. Troshkin, Singapore, World Scientific, 2021, 284 pp., £85 (hardback), ISBN 978-981-1230-51-6. Scope: monograph. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 63(2):156, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2022:BRV

[4232] Michael Belsley. Book review: *Virtual and real labs for introductory physics II: optics, modern physics, and electromagnetism* by Daniel Erenso, Bristol, UK, IOP Science, 2021, 380 pp., 90EUR (hardback), ISBN 978-0-7503-3713-7. Scope: textbook. Level: pre-university, undergraduate. *Contemporary Physics*, 63(2):156–157, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2022:BRSb

[4233] Manuel Vogel. Book review: *String theory and the real world: the visible sector*, 2nd edition, by Gordon Kane, Bristol, UK, IOP Publishing, 2021, 175 pp., $50 (hardback); $40 (ebook), ISBN: 978-0-7503-3581-2. Scope: monograph. Level: general readership. *Contemporary Physics*, 63(2): 157–158, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2022:BRG

[4234] Andrew Resnick. Book review: *Gravity, magnetic and electromagnetic gradiometry: strategic technologies in the 21st century*, 2nd edition, by Alexey V. Veryaskin, Bristol, IOP Publishing Ltd, 2021, 175 pp., $125.00 (hardcover), ISBN-13: 978-0-7503-3801-1, ISBN-10: 0-7503-3801-6. Scope: monograph. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 63(2):158–

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Harker:2022:BRA

[4235] A. H. Harker. Book review: *Applications of polymer nanofibers* edited by Anthony L. Andrady and Saad A. Khan, Hoboken, NJ, Wiley, 2022, xvi + 408 pp., £133.99 (e-book), ISBN 978-1-119-26770-6. Scope: edited book. Level: early career researcher, researcher. *Contemporary Physics*, 63(2):159, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4236] Holly Schofield, Elena Boto, Vishal Shah, Ryan M. Hill, James Osborne, Molly Rea, Cody Doyle, Niall Holmes, Richard Bowtell, David Woolger, and Matthew J. Brookes. Quantum enabled functional neuroimaging: the why and how of magnetoencephalography using optically pumped magnetometers. *Contemporary Physics*, 63(3):161–179, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4237] David L. Clements. Venus, phosphine and the possibility of life. *Contemporary Physics*, 63(3):180–199, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4238] Darryl Z. Seligman and Amaya Moro-Martín. Interstellar objects. *Contemporary Physics*, 63(3):200–232, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4239] Chris Quigg. Advice to a lecturer. *Contemporary Physics*, 63(3):233–241, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2022:BRB

[4240] Peter J. Dobson. Book review: *Bionanomaterials for environmental and agricultural applications* edited by Ravindra Pratap Singh and Kshitij RB Singh, Institute of Physics Publishing Ltd, 2021, £120 (hardback), ISBN: 978-0-7503-3863-9. Scope: review, reference. Level: general readership, advanced undergraduate, postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 63(3):242, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Beauty:2022:BRB

[4241] Aras Beauty and Afnan Taqiyarrahman. Book review: *The brain-bladder axis in tissue growth and remodelling* by Roustem N. Miftahof and Christian J. Cyron, Bristol, IOP Publishing, 2021, 175 pp., $190 (hardback), $159 (ebook), ISBN 978-0-7503-3567-6. Scope: monograph. Level: general readership, undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist, engineer. *Contemporary Physics*, 63(3):242–243, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Huda:2022:BRT

[4242] Erin Ficrah Huda and Suci Indah Putri. Book review: *Tailored functional oxide nanomaterials: from design to multi-purpose applications* edited by Chiara Maccato and Davide Barica, Weinheim, Wiley, 2022, 512 pp., $156.35 (hardback), ISBN 978-3-527-34759-9. Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(3):243–244, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zutt:2022:BRC

[4243] Nicholas Zutt. Book review: *Cosmic analogies: How natural systems emulate the universe* by Valerio Faraoni, London, World Scientific, 2022, 262 pp., USD 98.00 (E-Book), ISBN 978-1-80061-342-3. Scope: monograph. Level: undergraduate. *Contemporary Physics*, 63(3):244–245, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2022:BRP

[4244] Jack Reid. Book review: *The physics of sound waves: music, instruments, and sound equipment*, second edition, by Panos Photinos, Bristol, IOP Science, 2021, 269 pp., $50.00 (hardback), $40.00 (e-book), ISBN: 978-0-7503-3539-3. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 63(3):245, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4245] S. Schiller. Precision spectroscopy of molecular hydrogen ions: an introduction. *Contemporary Physics*, 63(4):247–279, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stranks:2022:HPP

[4246] Samuel D. Stranks. Halide perovskite photovoltaics. *Contemporary Physics*, 63(4):280–304, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4247] A. T. Boothroyd. Topological electronic bands in crystalline solids. *Contemporary Physics*, 63(4):305–327, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2022:BRQ

[4248] Salvatore Esposito. Book review: *The quantum internet — the second quantum revolution* by Peter P. Rohde, Cambridge, Cambridge University Press, 2020, 344+xviii pp., £49.99 (hardback), ISBN: 978-1-108-49145-7. Scope: monograph. Level: postgraduate, researcher, specialist, engineers. *Contemporary Physics*, 63(4):328, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2022:BRT

[4249] Jack Reid. Book review: *Thermodynamics of complex systems: principles and applications* by Vladimir N. Pokrovskii, London, IOP Science, 2020, 321 pp., $190.00 (hardback), ISBN 978-0-7503-3449-5. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 63(4):329, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Humaira:2022:BRF

[4250] Humaira and Erin Ficrah Huda. Book review: *Flexible supercapacitors: materials and applications* edited by Guozhen Shen, Zheng Lou and Di Chen, Hoboken, Wiley, 2022, 331 pp., $195.00 (hardback), ISBN 978-1-119-50616-4. Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(4):329–330, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Falcone:2022:BRP

[4251] Francisco Falcone. Book review: *Printed and flexible sensor technology* by Subhas Mukhopadhyay and Anindya Nag, Bristol, IOP Publishing, 2021, 300 pp., $190.00 (hardback), ISBN: 978-0-7503-3439-6. Scope: reference. Level: postgraduate. *Contemporary Physics*, 63(4):330–331, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hardi:2022:BRO

[4252] Anla Fet Hardi and Erin Ficrah Huda. Book review: *Organic solar cells: materials design, technology and commercialization* edited by Liming Ding, Weinheim, Wiley, 2022, 720 pp., $156.00 (hardback), ISBN 978-3-527-83366-5. Scope: textbook. Level: advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(4): 331–332, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2022:BRJ

[4253] Toni Shiroka. Book review: *A journey into reciprocal space: a crystallographer's perspective*, 2nd edition, by Anthony Michael Glazer, IOP Science, Bristol, 2021, 274 pp., 145 Euro, ISBN: 978-0-7503-3875-2 (Hardback). Scope: Textbook. Level: Undergraduate, advanced Undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 63(4):332–333, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2022:BRN

[4254] Mario Bertolotti. Book review: *Nanotechnology: trends and future applications* by Muhammad Bilal Tahir, Muhammad Rafique and Muhammad Sagir, Singapore, Springer International Publishing, 2021, 143 pp., $79.99 (e-Book), ISBN 978-981-15-9437-3. Scope: monograph. Level: non-specialists. *Contemporary Physics*, 63(4):333, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2022:BRS

[4255] Miguel A. F. Sanjuán. Book review: *Set theory and its applications in physics and computing* by Yair Shapira, Singapore, World Scientific, 2022, 480 pp., £100 (hardback), ISBN: 978-981-12-6177-0. Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 63(4): 333–334, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zutt:2022:BRD

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Harker:2022:BRE

[4257] A. H. Harker. Book review: *Energy materials* by Aliaksandr S. Bandarenka, Abingdon, Routledge Taylor & Francis Group, 2022, xv + 236 pp., £74.99 (e-book), ISBN: 978-0-367-45736-5. Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher. *Contemporary Physics*, 63(4):335–336, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wandi:2022:BRC

[4258] Wandi Wandi and Fani Mardianti. Book review: *Cartoon physics: a graphic novel guide to solving physics problems* by Scott Calvin and Kirin Emlet Furst, Boca Raton, CRC Press, 2022, 273 pp., £31.99 (paperback), ISBN 978-1-138-59878-2. Scope: general interest. Level: general readership, undergraduate. *Contemporary Physics*, 63(4):336–337, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2022:BRP

[4259] A. H. Harker. Book review: *The physics of phonons*, 2nd edition, by Gyaneshwar P. Srivastava, Boca Raton, FL/Abingdon, UK, CRC Press, 2023, xxi+434 pp., £180 (hardback), ISBN 978-0-367-68526-3. Scope: monograph. Level: advanced undergraduate, graduate, early stage researcher. *Contemporary Physics*, 63(4):337, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2022:BRQ

[4260] Mohit Sharma. Book review: *Quantum transport in nanostructures and molecules: an introduction to molecular electronics* by Colin John Lambert, Bristol, IOP Publishing, 2021, 445 pp., $190 (hardback), $159 (e-book), ISBN: 978-0-7503-3639-0. Scope: review. Level: researcher. *Contemporary Physics*, 63(4):337–339, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Marsh:2023:AA

[4261] David J. E. Marsh. Axions for amateurs. *Contemporary Physics*, 64 (1):1–18, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mercer:2023:SPL

[4262] William J. Mercer and Yuri A. Pashkin. Superconductivity: the path of least resistance to the future. *Contemporary Physics*, 64(1):19–46, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Padovani:2023:ELT

[4263] Paolo Padovani and Michele Cirasuolo. The Extremely Large Telescope. *Contemporary Physics*, 64(1):47–64, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Perryman:2023:SA

[4264] Michael Perryman. Space astrometry. *Contemporary Physics*, 64(1): 65–81, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2023:BRA

[4265] Toni Shiroka. Book review: *Application-driven quantum and statistical physics: a short course for future scientists and engineers, Volume 3: Transitions* by Jean-Michel Gillet, London, World Scientific, 2020, £80 (E-Book), ISBN: 978-1-78634-788-6. Scope: textbook. level: undergraduate, advanced undergraduate, early career researcher, researcher, Bachelor and Master's level engineering and physics students. *Contemporary Physics*, 64(1):82–83, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4266] Toni Shiroka. Book review: *Fundamentals and applications of magnetic materials* by Kannan M. Krishnan, Oxford, Oxford University Press, 2020, 795 pp., £40 (Paperback), ISBN: 978-0-19-886204-8. Scope: reference, handbook. level: undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, scientist, engineers. *Contemporary Physics*, 64(1):83–84, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zutt:2023:BRO

[4267] Nicholas Zutt. Book review: *An object-oriented Python cookbook in quantum information theory and quantum computing* by M. S. Ramkarthik and Pranay Barkataki, Boca Raton, FL, CRC Press, Taylor & Francis Group, 2023, 220 pp., 104 USD (hardback), ISBN: 978-1-032-25607-8. Scope: handbook. level: postgraduate. *Contemporary Physics*, 64(1): 84–85, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2023:BRI

[4268] Michael Belsley. Book review: *Invitation to quantum mechanics* by Daniel F. Styer, Singapore, World Scientific Publishing Co. Pte. Ltd, 2022, 289 pp., £30 (e-book), ISBN: 978-981-12-4792-7; £40 (paperback), ISBN: 978-981-12-4928-0; £80 (hardback), ISBN: 978-981-12-4790-3. Scope: textbook. level: undergraduate. *Contemporary Physics*, 64(1):85, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRC

[4269] A. H. Harker. Book review: *Commonly Asked Questions in thermodynamics*, 2nd edition, by Marc J. Assael, Geoffrey C. Maitland, Thomas Maskow, Urs von Stockar, William A. Wakeham, and Stefan Will, Boca Raton, FL, USA and Abingdon, UK, CRC Press, 2022, xxiv + 461 pp., £170 (hardback), ISBN: 978-0-367-33891-6; ISBN: 978-1-032-27589-5 (paperback); ISBN: 978-0-429-32952-4 (e-book). Scope: textbook. level: advanced undergraduate, graduate, early stage researcher. *Contemporary Physics*, 64(1):86, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRO

[4270] A. H. Harker. Book review: *Offbeat physics: machines, meditations and misconceptions*, edited by P. I. C. Teixeira, Boca Raton, FL, and Abingdon, UK, CRC Press, 2022, xvi + 258 pp., £99.99 (hardback), ISBN: 978-1-032-02116-4; ISBN: 978-1-032-03393-8 (paperback); ISBN: 978-1-003-18710-3 (e-book). Scope: article collection. level: undergraduate. *Contemporary Physics*, 64(1):86–87, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2023:BREa

[4271] Stephen J. Blundell. Book review: *Elementary Introduction to Quantum Geometry* by Jan Ambjorn, Abingdon, CRC Press, 2023, 292 pp., £74.99 (hardcover), ISBN: 978-1-032-33555-1. Scope: textbook. level: researcher. *Contemporary Physics*, 64(1):87, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2023:BRT

[4272] Peter J. Dobson. Book review: *Transition metal oxides for electrochemical energy storage*, edited by Jagit Nanda and Veronica Augustyn, Chichester, UK, Wiley, 2022, 432 pp., £138.99 (e-Book), ISBN: 978-3-527-34493-2. Scope: review, reference, monograph. level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 64(1):87–88, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2023:BRD

[4273] Stephen J. Blundell. Book review: *Density functional theory: a practical introduction*, 2nd edition, by David S. Sholl and Janice A. Steckel, Hoboken, NJ, Wiley, 2023, 204 pp., £91.25 (hardcover), ISBN 978-1-119-84086-2. Scope: textbook. level: graduate student, researcher. *Contemporary Physics*, 64(1):88, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRS

[4274] A. H. Harker. Book review: *So simple a beginning: how four physical principles shape our living world*, by Raghuveer Parthasarathy, Princeton, NJ, USA and Woodstock, Oxfordshire, UK, Princeton University Press, 2022, x + 326 pp., £30 (hardback), ISBN: 978-0-691-20040-8; £30 (e-book), ISBN: 978-0-691-23161-7. Scope: general interest. level: general reader. *Contemporary Physics*, 64(1):88–89, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Beauty:2023:BRL

[4275] Aras Beauty and Bimo Bramantio. Book review: *Life in the universe*, 5th edition, by Jeffrey Bennett, Seth Shostak, Nicholas Schneider and Meredith MacGregor, Princeton, Princeton University Press, 2022, 544 pp., £84.00 (e-book), ISBN: 978-0-691-24178-4. Scope: review. level: general readership, undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 64(1):89–90, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2023:BRW

[4276] Miguel A. F. Sanjuán. Book review: *When things grow many. Complexity, universality and emergence in nature*, by L. S. Schulman, Oxford, UK, Oxford University Press, 2022, 304 pp., £45 (hardback), ISBN: 978-0-19-886188-1. Scope: monograph. level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 64(1):90–91, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4277] Oliver Buchmueller, John Ellis, and Ulrich Schneider. Large-scale atom interferometry for fundamental physics. *Contemporary Physics*, 64(2): 93–110, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4278] S. J. Clark and Z. Hawkhead. Non-collinear spin in electronic structure calculations. *Contemporary Physics*, 64(2):111–126, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4279] Tom Lancaster. Quantum spin liquids. *Contemporary Physics*, 64(2): 127–146, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pedernales:2023:OFS

[4280] Julen S. Pedernales and Martin B. Plenio. On the origin of force sensitivity in tests of quantum gravity with delocalised mechanical systems. *Contemporary Physics*, 64(2):147–163, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4281] A. H. Harker. Book review: *Introduction to the mathematical physics of nonlinear waves*, 2nd edition, by Minoru Fujimoto, Bristol, UK, IOP Publishing, 2021, xv + 165 pp., £75.00 (hardback), ISBN: 978-0-7503-3757-1 (hbk); 978-0-7503-3760-1 (myPrint); 978-0-7503-3759-5 (ebook); 978-0-7503-3758-8 (mobi). Scope: textbook. level: advanced undergraduate, graduate. *Contemporary Physics*, 64(2):164, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2023:BRS

[4282] Thomas Peters. Book review: *Statistical and thermal physics: with computer applications*, 2nd edition by Harvey Gould and Jan Tobochnik, Princeton and Oxford, Princeton University Press, 2021, 528 pp., £75.00 (hardback), ISBN 978-0-691-20189-4. Scope: text book. level: undergraduate. *Contemporary Physics*, 64(2):164–165, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2023:BRH

[4283] M. Jamil. Book review: *High school and undergraduate physics practicals with 3D simulations*, 1st edition by Robert Lucas, UK, Taylor & Francis Group, CRC Press, 2022, 246 pp., 148 illus., $64 (£39) (Paperback), ISBN: 978-1-032-19739-5, ISBN: 978–1-032-2029-0. Scope: monograph. level: high school & undergraduate students, lecturers, researchers. *Contemporary Physics*, 64(2):165, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Beauty:2023:BRB

[4284] Aras Beauty and Fitri Natalia. Book review: *Bioelectromagnetism history, foundations and applications*, by Shoogo Ueno and Tsukasa Shigemitsu, Boca Raton, CRC Press, 2022, 346 pp., EUR150.00 (hardback), ISBN 978-1-032-00121-0. Scope: textbook. level: advanced undergraduate, postgraduate, researcher, scientist. *Contemporary Physics*, 64 (2):166, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gangopadhyay:2023:BRS

[4285] Gautam Gangopadhyay. Book review: *The sky is for everyone: women astronomers in their own words*, edited by Virginia Trimble and David A. Weintraub, Princeton and Oxford, Princeton University Press, 2022, E-Book, ISBN: 978-0-691-20710-0. Scope: general interest. level: general readership. *Contemporary Physics*, 64(2):166–167, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2023:BRP

[4286] Stephen H. Ashworth. Book review: *Physics behind music: an introduction*, by Bryan H. Suits, Cambridge, UK, Cambridge University Press, 2023, E-Book, ISBN 978-1-108-95315-3. Scope: review. level: general readership, non-specialists. *Contemporary Physics*, 64(2):167–168, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4287] W. P. Bowen, Helen M. Chrzanowski, Dan Oron, Sven Ramelow, Dmitry Tabakaev, Alex Terrasson, and Rob Thew. Quantum light microscopy. *Contemporary Physics*, 64(3):169–193, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4288] Antonino Pietropaolo. The physical mechanisms of neutron detection. *Contemporary Physics*, 64(3):194–223, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rosanov:2023:HCE

[4289] N. N. Rosanov, M. V. Arkhipov, R. M. Arkhipov, and A. V. Pakhomov. Half-cycle electromagnetic pulses and pulse electric area. *Contemporary Physics*, 64(3):224–243, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sukirno:2023:BRB

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Gangopadhyay:2023:BRJ

[4291] Gautam Gangopadhyay. Book review: *The joy of science* by Jim Al-Khalili, Princeton and Oxford, Princeton University Press, 2022, 224 pp., $16.95/£13.99 (E-Book), ISBN: 978-0-691-23566-0. Scope: general interest. Level: general readership. *Contemporary Physics*, 64(3):247, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Maina:2023:BRS

[4292] Ezio Maina. Book review: *A student's guide to python for physical modeling*, 2nd edition by Jesse M. Kinder and Philip Nelson, Princeton, NJ, Princeton University Press, 2021, 240 pp., $26.95 (paperback), ISBN 978-0-691-22365-0. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 64(3):247–248, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bridges:2023:BRW

[4293] Thomas J. Bridges. Book review: *Wavefronts and rays as characteristics and asymptotics*, 3rd edition by Andrej Bona and Michael A. Slawinski, Singapore, World Scientific, 2020, 356 pp., £120 (hbk), £95 (ebook), ISBN 978-981-12-2646-5. Scope: reference. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 64(3):248, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2023:BRR

[4294] M. Jamil. Book review: *Renewable energy: a first course*, 3rd edition by Robert Ehrlich, Harold A. Geller, and John R. Cressman, Boca Raton, FL, Routledge Taylor & Francis Group, 2022, 562 pp., US$88.12 (paperback), ISBN: 978-0-367-76837-9. Scope: review. Level: undergraduate, advanced undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 64(3):249–250, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRP

[4295] A. H. Harker. Book review: *Physics and chemistry of interfaces* (fourth edition) by Hans-Jürgen Butt, Karlheinz Graf and Michael Kappl, Weinheim, Germany, Wiley-VCH, 2023, xii + 458 pp., £40.99 (e-book), £65 (paperback), ISBN: 978-3-527-41405-5 (paperback), ISBN: 978-3-527-83617-8 (ePDF), ISBN: 978-3-527-83616-1 (ePub). Scope: monograph. Level: advanced undergraduate, graduate, early stage researcher. *Contemporary Physics*, 64(3):250–251, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2023:BRH

[4296] Stephen J. Blundell. Book review: *How to be a quantum mechanic* by Charles G. Wohl, Boca Raton, Routledge Taylor & Francis Group, 2022, 380 pp., £42 (paperback), ISBN: 978-1-032-25602-3. Scope: textbook. Level: undergraduate student. *Contemporary Physics*, 64(3):251, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2023:BRQa

[4297] Mohit Sharma. Book review: *Quantum mechanics II advanced topics* by S. Rajasekar and R. Velusamy, USA, Routledge Taylor & Francis Group, 2022, £69.59 (E-Book), ISBN: 978-0-367-77000-6. Scope: review. Level: early career researcher. *Contemporary Physics*, 64(3):251–252, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Chiesa:2023:QIP

[4298] Alessandro Chiesa, Emilio Macaluso, and Stefano Carretta. Quantum information processing with molecular nanomagnets: an introduction. *Contemporary Physics*, 64(4):253–281, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4299] Tom Rudelius. An introduction to the Weak Gravity Conjecture. *Contemporary Physics*, 64(4):282–295, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pajic-Lijakovic:2023:PCS

[4300] Ivana Pajic-Lijakovic, Milan Milivojevic, and Peter V. E. McClintock. Physics of cancer spreading through epithelium. *Contemporary Physics*, 64(4):296–314, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2023:BRD

[4301] Miguel A. F. Sanjuán. Book review: *Dynamics of planetary systems*. A review of by Scott Tremaine, Princeton, NJ, Princeton University Press, 2023, 604 pp., £125 (paperback), ISBN 978-0-691-20712-4. Scope: monograph, textbook. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 64(4):315–318, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Liliya:2023:BRN

[4302] Frolova Liliya. Book review: *Nanotechnology for light pollution reduction* by Tuan Anh Nguyen and Ram K. Gupta, Boca Raton, FL, CRC Press, 2022, 330 pp., £135.00 (E-Book), ISBN: 978-1-032-02120-1. Scope: review. Level: scientist. *Contemporary Physics*, 64(4):319, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gangopadhyay:2023:BRP

[4303] Gautam Gangopadhyay. Book review: *Philosophy of physics: a new introduction* by Robert P. Crease, Bristol, UK, IOP Publishing, 2023, 62 pp., $40 (e-Book), ISBN: 978-0-7503-2636-0. Scope: Review. Level: General readership, non-specialists. *Contemporary Physics*, 64(4):319–320, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2023:BREb

[4304] Stephen J. Blundell. Book review: *Essentials of signals and systems* by E. Martins, Hoboken, Wiley, 2023, 313 pp., £60 (paperback), ISBN: 978-1-119-90923-1. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 64(4):320, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hazra:2023:BRP

[4305] Susmita Hazra. Book review: *Physics of the Sun* by Dermott J. Mullan, Routledge Taylor & Francis Group, 2022, £84.99 (hardback), ISBN: 978-0-367-71039-2. Scope: review. Level: postgraduate. *Contemporary Physics*, 64(4):321, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salasnich:2023:BRM

[4306] Luca Salasnich. Book review: *A multidisciplinary approach to quantum field theory, volume 1* by Michael Ogilvie, Bristol, UK, IOP Science, 2022, 300 pp., $89.91 (hardcover), ISBN: 978-0-7503-3227-9. Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 64(4):

321–322, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Casazza:2023:BRP

[4307] Marco Casazza. Book review: *Physics behind music* by Brian H. Suits, Cambridge, UK, Cambridge University Press, 2023, 422 pp., EUR87.52 (hardback), EUR35.00 (paperback), EUR35.00 (E-book), ISBN: 978-1-108-94870-8. Scope: monograph. Level: non-specialists, undergraduate, researcher, teacher. *Contemporary Physics*, 64(4):322, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2023:BRQb

[4308] Mohit Sharma. Book review: *Quantum mechanics non-relativistic and relativistic theory* by Lukong Cornelius Fai, London, Routledge, Taylor & Francis Group, 2022, 552 pp., £115.00 (E-Book), ISBN: 978-1-032-22146-5. Scope: review. Level: advanced undergraduate. *Contemporary Physics*, 64(4):323–324, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRE

[4309] A. H. Harker. Book review: *Experimental techniques in magnetism and magnetic materials* by Sindhunil Barman Roy, Cambridge, UK, Cambridge University Press, 2022, xv + 311 pp., £110, ISBN: 978-1-108-48998-0 (hbk), ISBN: 978-1-009-27655-9 (ebook). Scope: monograph. Level: advanced undergraduate, graduate, early career researcher. *Contemporary Physics*, 64(4):324, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2023:BRS

[4310] Miguel A. F. Sanjuán. Book review: *Stochastic thermodynamics: an introduction* by Luca Peliti and Simone Pigolotti, Princeton, NJ, USA, Princeton University Press, 2021, 272 pp., £65 (hardback), ISBN: 978-0-691-20177-1. Scope: textbook. Level: postgraduate, early career researcher, researcher, specialist. *Contemporary Physics*, 64(4):324–325, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2023:BRM

[4311] Miguel A. F. Sanjuán. Book review: *More than the sum of the parts. Complexity in physics and beyond* by Helmut Satz, Oxford, Oxford University Press, 2022, 160 pp., £21.99 (Hardback), ISBN: 978-0-19-286417-8. Scope: general interest. Level: general readership, non-specialists, undergraduate, researcher, teacher, scientist. *Contemporary Physics*, 64(4):

325–326, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2024:E

[4312] Stephen Blundell. Editorial. *Contemporary Physics*, 65(1):1, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Heinosaari:2024:CQC

[4313] Teiko Heinosaari and Mark Hillery. Can a qudit carry more information than a dit? *Contemporary Physics*, 65(1):2–11, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ellis:2024:ARF

[4314] Simon Charles Ellis and Joss Bland-Hawthorn. Astrophotonics: recent and future developments. *Contemporary Physics*, 65(1):12–39, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kxfchne:2024:NMR

[4315] H. Kühne and Y. Ihara. Nuclear magnetic resonance spectroscopy in pulsed magnetic fields. *Contemporary Physics*, 65(1):40–61, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2024:BRB

[4316] Jack Reid. Book review: *Back to the moon: the next giant leap for humankind* by Joseph Silk, Princeton, Princeton University Press, 2022, 287 pp., $29.95 (hardback), ISBN: 978-0-691-21523-5. Scope: general interest. Level: general readership. *Contemporary Physics*, 65(1):62, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ardiansyah:2024:BRN

[4317] Abd Aziz Ardiansyah and Devi Yulianty Surya Atmaja. Book review: *No-frills physics: a concise study guide for algebra-based physics* by Matthew D. McCluskey, Boca Raton, CRC Press, 2019, 260 pp., $32.22 (paperback), ISBN 978-1-138-58387-0. Scope: handbook; guide; textbook. Level: general readership; pre-university. *Contemporary Physics*, 65(1):63, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kamran:2024:BRM

[4318] Muhammad Kamran. Book review: *Mathematical physics for nuclear experiments* by Andrew E. Ekpenyong, Boca Raton, FL, CRC Press, 2022, 280 pp., £58.99 (Paperback), £150.00 (Hardback), £53.09 (E-book), ISBN: 978-1-032-10499-7. Scope: reference, textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 65(1):63–64, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kamran:2024:BRQ

[4319] Muhammad Kamran. Book review: *Quantum mechanics I the fundamentals* by S. Rajasekar and R. Velusamy, Boca Raton, FL, CRC Press, 2022, 607 pp., £86.99 (hardback), £78.29 (eBook), ISBN: 978-0-367-76998-7. Scope: reference, textbook. Level: advanced undergraduate. *Contemporary Physics*, 65(1):64–65, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2024:BRM

[4320] Miguel A. F. Sanjuán. Book review: *A mind over matter* by Andrew Zangwill, Oxford, UK, Oxford University Press, 2021, 416 pp., £30.99 (hardback), ISBN 978-0-19-886910-8. Scope: biography. Level: general readership, non-specialists. *Contemporary Physics*, 65(1):65–66, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Muki:2024:BRP

[4321] Beata Graceshela Muki and Sumiati. Book review: *Primary physical science education (PPSE): an imaginative approach to encounters with nature* Hans U. Fuchs and Federico Corni, Switzerland, Springer Cham, 2023, xiv + 347 pp., EUR39.99 (paperback), Series: 1, ISBN: 978-3-031-43955-1. Scope: general interest. Level: general readership, undergraduate, researcher, teacher. *Contemporary Physics*, 65(1):66–67, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kamilah:2024:BRF

[4322] Dendy Siti Kamilah and Sumiati. Book review: *Fascinating problems for young physicists: discovering everyday physics phenomena and solving them* by Nenad Vukmirović and Vladimir Veljić, Cambridge, Cambridge University Press, 2022, 243 pp., $34.99 (Hardback), ISBN: 978-1-009-16028-5. Scope: general interest. Level: general readership, pre-university, undergraduate, teacher. *Contemporary Physics*, 65(1):67–68, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hidayat:2024:BRS

[4323] Taufik Hidayat and Eduwin Saputra. Book review: *Surface-functionalized ceramics: for biotechnological and environmental applications*, 1st edition, by Laura Treccani and Fabian Meder, Weinheim, WILEY VCH, 2023, 464 pp., US$156.00 (Ebook), ISBN: 978-3-527-69805-9.

Scope: review, reference, monograph. Level: undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, scientist, engineers. *Contemporary Physics*, 65(1):68–69, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Aryani:2024:BRU

[4324] Siska Dewi Aryani and Sri Zakiyah. Book review: *Understanding the physics of toys: principles, theory and exercises* by S. Rajasekar, R. Velusamy and Miguel A. F. Sanjuan, Singapore, World Scientific, 2023, 470 pp., $58.00 (paperback), ISBN: 978-981-12-6800-7. Scope: general interest. Level: general readership. *Contemporary Physics*, 65(1):69–70, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fritz:2024:BRG

[4325] Alexander Fritz. Book review: *"Great mysteries in astrophysics": a guide to what we don't know* by Nicole M. Lloyd-Ronning, Bristol, IOP Publishing, 2022, 164 pp., EUR46.30 (e-book), ISBN: 978-0-7503-4051-9 (e-book); ISBN: 978-0-7503-4049-6 (print). Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate. *Contemporary Physics*, 65(1):70–71, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ping:2024:BRF

[4326] Yow Ai Ping. Book review: *Fascinating problems for young physicists* by Nenad Vukmirović and Vladimir Veljić, Cambridge, Cambridge University Press, 2022, 300 pp., $84.99, ISBN: 978-1-009-16027-8. Scope: reference. Level: high school and undergraduate students, lecturers. *Contemporary Physics*, 65(1):71, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fritz:2024:BRT

[4327] Alexander Fritz. Book review: *A traveler's guide to the stars* by Les Johnson, Princeton, Princeton University Press, 2022, 219 pp., $27.95/£22.00 (hardcover), $18.95/£15.99 (e-book), ISBN: 978-0-691-24007-7. Scope: monograph. Level: general readership, undergraduate. *Contemporary Physics*, 65(1):71–73, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2024:BRQ

[4328] Francisco Caruso. Book review: *Quantum drama: from the Bohr–Einstein debate to the riddle of entanglement* by Jim Baggott and John L. Heilbron, Oxford, UK, Oxford University Press, 2024, 352 pp., $32.99

(hardcover), ISBN 978-0-19-193849-8. Scope: review. Level: postgraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 65(1):73–74, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Croon:2024:GWP

[4329] Djuna Lize Croon and David James Weir. Gravitational waves from phase transitions. *Contemporary Physics*, 65(2):75–96, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belhouari:2024:NTP

[4330] Aissa Belhouari. Numerical tools in particle physics. *Contemporary Physics*, 65(2):97–111, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4331] Marco Barbieri, Ilaria Gianani, Aaron Z. Goldberg, and Luis L. Sánchez-Soto. Quantum multiphase estimation. *Contemporary Physics*, 65(2): 112–124, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4332] Toni Shiroka. Book review: *John David Jackson: a course in quantum mechanics* A review of by Robert N. Cahn and John David Jackson, Hoboken, NJ, USA, Wiley, 2024, 400 pp., £76.50 (hardback), ISBN: 978-1-119-88038-7. Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 65(2):125–127, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Clayton:2024:BRC

[4333] John D. Clayton. Book review: *Crystalline solid state physics: an interactive guide* by Meng Lee Leek, Bristol, UK, IOP, 2023, 247 pp., 120 USD (hardback), ISBN: 978-0-7503-5217-8. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 65(2):128–129, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2024:BRA

[4334] Prince Sharma. Book review: *Atomistic simulations of glasses: fundamentals and applications* edited by Jincheng Du and Alastair N. Cormack, Hoboken, John Wiley & Sons, Inc., 2022, 560 pp., $169 (e-book), ISBN: 978-1-118-93907-9, (e-book), ISBN: 978-1-118-93906-2 (hardback).

Scope: edited book. Level: postgraduate, early career researcher, researcher, scientist, engineers. *Contemporary Physics*, 65(2):129–130, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2024:BRS

[4335] Manuel Vogel. Book review: *Supermassive black holes* by Andrew King, Cambridge, UK, Cambridge University Press, 2023, 308 pp., GBP 68.55 (hardcover), ISBN: 978-1-108-48805-1. Scope: monograph. Level: undergraduate and above. *Contemporary Physics*, 65(2):130–131, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2024:BRI

[4336] Robert S. MacKay. Book review: *Introduction to Arnold's proof of the Kolmogorov–Arnold–Moser theorem* by Achim Feldmeier, Boca Raton, Routledge Taylor & Francis Group, 2022, £44.99 (e-book), ISBN: 978-1-032-26065-5. Scope: monograph. Level: specialist. *Contemporary Physics*, 65(2):131–132, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reddy:2024:BRC

[4337] Y. S. Reddy. Book review: *Crystalline solid state physics* by Meng Lee Leek, Bristol, UK, IOP, 2023, xii + 244 pp., $120.00 (e-book), ISBN: 978-0-7503-5217-8. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 65(2):132–133, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4338] B. Ishak. Book review: *The little book of exoplanets* by Joshua N. Winn, Princeton, Princeton University Press, 2023, 304 pp., £18.99 (hardback), ISBN: 978-0-691-21547-1. Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 65(2):133, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2024:BRP

[4339] B. Ishak. Book review: *Particle cosmology and astrophysics* by Dan Hopper, Princeton, Princeton University Press, 2024, 448 pp., £62 (hardback), ISBN: 978-0-691-23504-2. Scope: reference, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 65(2):133–134, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2024:BRS

[4340] B. Ishak. Book review: *The sixth element: how carbon shapes our world* by Theodore P. Snow and Don Brownlee, Princeton, Princeton University Press, 2024, 264 pp., £22.00 (hardback), ISBN: 978-0-691-12588-6. Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 65(2):134, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2024:BRM

[4341] J. Rogel-Salazar. Book review: *Machine learning for physicists* by Sadegh Raeisi and Sedighe Raeisi, Bristol, UK, IOP, 2023, 94 pp., $95 (EBook), ISBN: 978-0-7503-4957-4. Scope: review. Level: undergraduate. *Contemporary Physics*, 65(2):134–135, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2024:BRLb

[4342] B. Ishak. Book review: *Life and language beyond earth* by Raymond Hickey, Cambridge, Cambridge University Press, 2023, 695 pp., £25.00 (hardback), ISBN 978-1-009-22641-7. Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 65(2):135, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Barber:2024:BRI

[4343] D. C. Barber. Book review: *An introduction to the physics of nuclear medicine* (second edition) by Laura Harkness-Brennan, IOP, 2023, 125 pp., £73.40 (hardback), ISBN 978-0-7503-5197-3. Scope: review. Level: general readership, pre-university, undergraduate, advanced undergraduate, postgraduate. *Contemporary Physics*, 65(2):136, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4344] Gerard Gilmore. Book review: *The Einsteinian revolution: the historical roots of his breakthroughs* by Hanoch Gutfreund and Jürgen Renn, Princeton University Press, 2023, 272 pp., (e-book), ISBN: 978-0-691-16876-0. Scope: review. Level: general readership. *Contemporary Physics*, 65(2):136–137, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4345] B. Ishak. Book review: *Atlas of the Messier objects: highlights of the deep sky*, 2nd edition, by Ronald Stoyan, Cambridge, Cambridge University Press, 2023, 372 pp., £59.99 (hardback), ISBN: 978-1-009-36406-5. Scope:

general interest. Level: general readership. *Contemporary Physics*, 65 (2):137, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2024:BRLc

[4346] B. Ishak. Book review: *The large scale structure of space-time*, 50th anniversary edition, by Stephen W. Hawking and George F. R. Ellis, Cambridge, Cambridge University Press, 2023, 410 pp., £27.99 (hardback), ISBN: 978-1-009-25315-4. Scope: monograph. Level: specialist. *Contemporary Physics*, 65(2):138, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4347] Gerard Gilmore. Book review: *Big Science in the 21st century* by Panagiotis Charitos, Theodore Arabatzis, Harry Cliff, Gunther Dissertori, Juliette Forneris and Jason Li-Ying, IOP, 2023 (E-Book), ISBN 978-0-7503-3631-4. Scope: reference. Level: specialist. *Contemporary Physics*, 65(2):138, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gilmore:2024:BRQ

[4348] Gerry Gilmore. Book review: *Quantum drama: from the Bohr–Einstein debate to the riddle of entanglement* by Jim Baggott and John L. Heilbron, Oxford, OUP, 2024, 336 pp., GBP26.99 (hardback), ISBN: 978-0-19-193849-8. Scope: monograph. Level: specialist. *Contemporary Physics*, 65(2):139, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2024:BRA

[4349] Matt Probert. Book review: *AI for physics* by Volker Knecht, London, Routledge Taylor & Francis Group, 2022, £22 (e-book), ISBN: 978-1-032-15169-4. Scope: reference. Level: undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 65(2):139–140, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2024:BRD

[4350] Miguel A. F. Sanjuán. Book review: *Data science for complex systems* by Anindya S. Chakrabarti, K. Shuvo Bakar and Anirban Chakraborti, Cambridge, Cambridge University Press, 2023, 304 pp., £54.99 (hardback), ISBN: 978-1-108-84479-6. Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 65(2):140–141, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2024:BRC

[4351] J. Rogel-Salazar. Book review: *Classical mechanics and relativity*, 2nd edition by Harald J. W. Muller-Kirsten, WSPC, 5 Top Tuck Link, Singapore, 2024, 588 pp., £70 (Softcover), ISBN: 978-981-12-8741-1. Scope: review. Level: advanced undergraduate. *Contemporary Physics*, 65(2): 141–142, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4352] J. Rogel-Salazar. Book review: *Physics behind music: an introduction* by Bryan H. Suits, Cambridge, CUP, 2023, 406 pp., £29.99 (E-Book), ISBN: 978-1-108-94870-8. Scope: review. Level: undergraduate. *Contemporary Physics*, 65(2):142, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4354] Y. S. Reddy. Book review: *Physics of matter* by George C. King, Wiley, UK, 2023, xviii + 446 pp., $56.00 (E-Book), ISBN: 978-1-119-46852-3. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 65(2): 143–144, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4355] Alexander Fritz. Book review: *When galaxies were born: the quest for cosmic dawn* by Richard S. Ellis, Princeton, NJ, Princeton University Press, 2022, 223 pp., $33.00/£28.00 (hardback), ISBN: 978-0-691-21130-5. Scope: biography. Level: general readership, non-specialists. *Contemporary Physics*, 65(2):144–145, 2024. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4357] J. E. Baggott. *Atomic: the First War of Physics and the Secret History of the Atomic Bomb, 1939–49*. Icon, London, UK, 2009. ISBN 1-84831-044-7 (hardcover). xiv + 576 + 16 pp. LCCN QC773 .B24 2009.

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[4358] Jim Baggott. *The First War of Physics: The Secret History of the Atomic Bomb, 1939–1949*. Pegasus Books, New York, NY, USA, 2010. ISBN 1-60598-084-6. xiv + 576 pp. LCCN QC773 .B24 2010.

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[4359] Jeremy Bernstein. *A Chorus of Bells and Other Scientific Inquiries*. World Scientific Publishing Co., Singapore; Philadelphia, PA, USA; River Edge, NJ, USA, 2014. ISBN 981-4578-94-0 (hardcover). xi + 275 pp. LCCN Q173 .B53 2014.

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[4361] Asa Briggs. *Secret Days: Code-Breaking in Bletchley Park*. Frontline Books, London, UK, 2011. ISBN 1-84832-615-7. xix + 202 + 26 pp. LCCN D810.C88 B75 2011.

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[4362] James R. Chelikowsky. *Introductory Quantum Mechanics with MATLAB For Atoms, Molecules, Clusters, and Nanocrystals*. Wiley-VCH, Weinheim, Germany, 2018. ISBN 3-527-40926-2 (paperback), 3-527-65501-8 (e-book), 3-527-65499-2 (Mobipocket ebook), 3-527-65500-X (ePub ebook), 3-527-65501-8 (PDF ebook). 240 pp. LCCN QC174.17.D37 .C445 2019. URL http://swbplus.bsz-bw.de/bsz506870707cov.htm; http://www.wiley-vch.de/publish/dt/books/ISBN978-3-527-40926-6/.

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[4363] Malcolm (Malcolm J.) Cooper and Jim Grozier. *Precise Dimensions: a History of Units from 1791–2018*. IOP expanding physics, [IOP release 4]. Institute of Physics Publishers, Bristol, UK, 2017. ISBN 0-7503-1485-0 (hardcover), 0-7503-1486-9 (mobi), 0-7503-1487-7 (e-book). ISSN 2053-2563. 181 (est.) pp. LCCN QC86 .C667 2017eb. URL http://iopscience.iop.org/book/978-0-7503-1487-9.

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[4365] Baldassare Di Bartolo and Richard C. (Richard Conger) Powell. *Crystal Symmetry, Lattice Vibrations and Optical Spectroscopy of Solids: a Group Theoretical Approach*. World Scientific Publishing Co., Singapore; Philadelphia, PA, USA; River Edge, NJ, USA, 2014. ISBN 981-4579-20-3 (hardcover). xviii + 515 pp. LCCN QC176.8.L3 D53 2014.

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[4366] John F. Donoghue, Eugene Golowich, and Barry R. Holstein. *Dynamics of the Standard Model*, volume 2 of *Cambridge monographs on particle physics, nuclear physics, and cosmology*. Cambridge University Press, Cambridge, UK, 1992. ISBN 0-521-36288-1 (hardcover). xviii + 540 pp. LCCN QC794.6.S75 D66 1991. URL http://www.loc.gov/catdir/description/cam032/91019007.html; http://www.loc.gov/catdir/toc/cam032/91019007.html.

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[4367] George Ellis. *How Can Physics Underlie the Mind?: Top-Down Causation in the Human Context*. Frontiers Collection. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 2016. ISBN 3-

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[4372] Louis Girifalco. *The Universal Force: Gravity — Creator of Worlds*. Oxford University Press, Walton Street, Oxford OX2 6DP, UK, 2008. ISBN 0-19-922896-5, 0-19-152797-1 (e-book), 1-281-15020-7. xx + 297 pp. LCCN QC178 .G555 2008.

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