A Bibliography of *Case Studies in Mathematical Modeling—Ecology, Physiology, and Cell Biology*

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References

Hartmann:1928:UEU

[1] M. Hartmann. Ueber experimentelle unsterblichkeit von protozoen-individuen. Ersatz der fotpflanzung von amoeba proteus durch fortgesetzte regenerationen. *Zool. Jahrb.*, 45:973–987, 1928.

Hill:1938:HSD

[2] A. V. Hill. The heat of shortening and dynamic constants of muscle. *Proceedings of the Royal Society of London. Series B. Biological sciences*, 126:136–195, 1938. CODEN PRLBA4. ISSN 0962-8452 (print), 1471-2954 (electronic).

Harvey:1940:CDN

[3] E. B. Harvey. A comparison of the development of nucleate and non-nucleate eggs of *Arbacia punctulata*. *Biological Bulletin*, 79:166–187, 1940. CODEN BIBUBX. ISSN 0006-3185.

Levinson:1944:TTN

[4] N. Levinson. Transformation theory of non-linear differential equations of the second order. *Annals of Mathematics*, 45:723–737, 1944. CODEN ANMAAH. ISSN 0003-486X (print), 1939-8980 (electronic).

Hodgkin:1946:ECC

[5] A. L. Hodgkin and W. A. H. Rushton. The electrical constants of a crustacean nerve fibre. *Proceedings of the Royal Society of London. Series B. Biological sciences*, 133:444–479, 1946. CODEN PRLBA4. ISSN 0962-8452 (print), 1471-2954 (electronic).

Hodgkin:1952:QDM

[6] A. L. Hodgkin and A. F. Huxley. A quantitative description of membrane current and its application to conduction and excitation in nerve. *Journal of Physiology*, 117:500–544, 1952. CODEN JPHYA7. ISSN 0022-3751.

Cole:1954:PCL

[7] L. C. Cole. The population consequences of life history phenomena. *Quarterly Review of Biology*, 29:103–137, 1954. CODEN QRBIAK. ISSN 0033-5770 (print), 1539-7718 (electronic).

Huxley:1954:CCM

[8] H. E. Huxley and J. Hanson. Changes in the cross-striations of muscle during contraction and stretch and their structural interpretation. *Nature*, 173:973–976, 1954. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Huxley:1954:IML

[9] A. F. Huxley and R. Niedergerke. Interference microscopy of living muscle fibres. *Nature*, 173:971–973, 1954. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Slobodkin:1954:PDD

[10] L. B. Slobodkin. Population dynamics in *Daphnia obtusa* kurz. *Ecological Monographs*, 24:69–88, 1954. CODEN ECMOAQ. ISSN 0012-9615.

Aubert:1956:CCM

[11] Xavier Aubert. *Le couplage énergetique de la contraction musculaire*. Éditions Arscia, Brussels, Belgium, 1956. 315 pp. Thèse d'agrégation — Université Catholique de Louvain.

Huxley:1957:MST

[12] A. F. Huxley. Muscle structure and theories of contraction. *Progress in Biophysics and Biophysical Chemistry*, 7:255–318, 1957. CODEN PBBCAF. ISSN 0096-4174.

Stark:1957:SSC

[13] L. Stark and P. M. Sherman. A servo-analytical study of the consensual pupil reflex to light. *Journal of Neurophysiology*, 20:17–26, 1957. CODEN JONEA4. ISSN 0022-3077.

Thomas:1957:MAV

[14] C. E. Thomas. The muscular architecture of the ventricles of hog and dog hearts. *American Journal of Anatomy*, 101:17–57, 1957. CODEN AJANA2. ISSN 0002-9106.

Fisher:1958:GTN

[15] R. A. Fisher. *The Genetical Theory of Natural Selection*. Dover Publications, Inc., New York, NY, 1958. 291 pp. LCCN QH366 .F5 1958.

Stark:1959:SON

[16] L. Stark. Stability, oscillations, and noise in the human pupil servomechanism. *Proceedings of the Institute of Radio Engineers*, 47:1925–1939, 1959. CODEN PIREAE. ISSN 0096-8390.

Frank:1960:PPG

[17] P. W. Frank. Prediction of population growth form in *Daphnia pulex* cultures. *American Naturalist*, 94:357–372, 1960. CODEN AMNTA4. ISSN 0003-0147.

Furstenberg:1960:PRM

[18] H. Furstenberg and H. Kesten. Products of random matrices. *Annals of Mathematical Statistics*, 31(2):457–469, June 1960. CODEN AASTAD. ISSN 0003-4851. URL `http://projecteuclid.org/euclid.aoms/1177705909`.

FitzHugh:1961:IPS

[19] R. FitzHugh. Impulses and physiological states in theoretical models of nerve membrane. *Biophysical Journal*, 1:445–466, 1961. CODEN BIOJAU. ISSN 0006-3495.

Nagumo:1962:APT

[20] J. S. Nagumo, S. Arimoto, and S. Yoshizawa. An active pulse transmission line simulating nerve axon. *Proceedings of the Institute of Radio Engineers*, 50:2061–2071, 1962. CODEN PIREAE. ISSN 0096-8390.

Stark:1962:ECB

[21] L. Stark. Environmental clamping of biological systems: Pupil servomchanism. *Journal of the Optical Society of America. A, Optics, image science, and vision*, 52:925–930, 1962. CODEN JOAOD6. ISSN 1084-7529, 0740-3232.

Veronis:1963:PC

[22] G. Veronis. Penetrative convection. *Astrophysical Journal*, 137:641–663, 1963. CODEN ASJOAB. ISSN 0004-637X (print), 1538-4357 (electronic).

Hill:1964:ELH

[23] A. V. Hill. The effect of load on the heat of shortening muscle. *Proceedings of the Royal Society of London. Series B. Biological sciences*, 159:297–318, 1964. CODEN PRLBA4. ISSN 0962-8452 (print), 1471-2954 (electronic).

Perkel:1964:PNE

[24] D. H. Perkel, J. H. Schulman, T. H. Bullock, G. P. Moore, and J. P. Segundo.

Pacemaker neurons: Effects of regularly spaced synaptic input. *Science*, 145:61–63, 1964. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Cohen:1966:ORR

[25] D. Cohen. Optimizing reproduction in a randomly varying environment. *Journal of Theoretical Biology*, 12:119–129, 1966. CODEN JTBIAP. ISSN 0022-5193.

Gordon:1966:VIT

[26] A. M. Gordon, A. F. Huxley, and F. J. Julian. The variation in isometric tension with sarcomere length in vertebrate muscle fibers. *Journal of Physiology*, 184:170–192, 1966. CODEN JPHYA7. ISSN 0022-3751.

Bhatia:1967:DSS

[27] N. P. (Nam Parshad) Bhatia and G. P. Szegő. *Dynamical Systems: Stability Theory and Applications*, volume 35 of *Lecture notes in mathematics*. Springer-Verlag, Berlin; New York, 1967. 6 + 416 pp. LCCN QA3 .L35 v.35.

MacArthur:1967:TIB

[28] R. H. MacArthur and E. O. Wilson. *The Theory of Island Biogeography*, volume 1 of *Monographs in Population Biology*. Princeton University Press, Princeton, NJ, USA, 1967. xi + 203 pp. LCCN QH85 .M3.

Flugge-Lotz:1968:DOC

[29] Irmgard Flügge-Lotz. *Discontinuous and Optimal Control*. McGraw-Hill, New York, NY, USA, 1968. x + 286 pp. LCCN A402.3 .F53.

FitzHugh:1969:BE

[30] R. FitzHugh. Mathematical models of excitation and propagation in theoretical models of nerve. In Herman P. Schwan et al., editors, *Biological Engineering*, volume 9 of *Inter-university electronic series*, pages 1–85. McGraw-Hill, New York, NY, USA, 1969. LCCN R856 .B47.

Rosenzweig:1969:WPC

[31] M. Rosenzweig. Why the prey curve has a hump. *American Naturalist*, 103: 81–87, 1969. CODEN AMNTA4. ISSN 0003-0147.

Rush:1969:CDD

[32] S. Rush, E. Lepeschkin, and A. Gregoritsch. Current distribution from defibrillation electrodes in a homogeneous torso model. *Journal of electrocardiology*, 2:331–341, 1969. CODEN JECAB4. ISSN 0022-0736.

Schmitt:1969:BIP

[33] O. H. Schmitt. Biological information processing using the concept of interpenetrating domains. In Leibovic [515], pages 325–331.

Streeter:1969:FOC

[34] D. D. Streeter, Jr., H. M. Spotnitz, D. P. Patel, J. Ross, Jr., and E. H. Sonnenblick. Fiber orientation in the canine left ventricle during diastole and systole. *Circulation Research*, 24:339–347, 1969. CODEN CIRUAL. ISSN 0009-7330.

Crow:1970:IPG

[35] J. F. Crow and M. Kimura. *Introduction to Population Genetics Theory*. Burgess Publishing Company, Minneapolis, MN, 1970. ISBN 0-06-356128-X (Harper and Row paperback, 1972 reprint), 0-8087-2910-2. xiv + 591 pp. LCCN QH431 .C76.

Rao:1970:MCF

[36] P. N. Rao and R. T. Johnson. Mammalian cell fusion: studies on the regulation of DNA synthesis and mitosis. *Nature*, 225:159–164, 1970. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Shiba:1970:EMF

[37] H. Shiba. An electric model for flat epithelial cells with low resistive junctional membranes. A mathematical supplement. *Japanese Journal of Applied Physics*, 9:1405–1409, 1970. CODEN JJAPA5. ISSN 0021-4922.

Weidmann:1970:ECT

[38] S. Weidmann. Electrical constants of trabecular muscle from mammalian heart. *Journal of Physiology*, 210:1041–1054, 1970. CODEN JPHYA7. ISSN 0022-3751.

Huxley:1971:PMF

[39] A. F. Huxley and R. M. Simmons. Proposed mechanism of force generation in striated muscle. *Nature*, 233:533–538, 1971. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Johnsson:1971:FEB

[40] A. Johnsson and H. G. Karlsson. Biological rhythms: Singularities in phase-shift experiments as predicted from a feedback model. In E. Broda, A. Locker, and H. Springer-Lederer, editors, *First European Biophysics Congress, 14–17 Sept. 1971, Baden near Vienna, Austria*, pages 263–267. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1971. LCCN QT34 .E89 1971. Six volumes.

Masui:1971:CCN

[41] Y. Masui and C. L. Markert. Cytoplasmic control of nuclear behavior during meiotic maturation of frog oocytes. *Journal of experimental zoology*, 177:129–146, 1971. CODEN JEZOAO. ISSN 0022-104X.

Mitchison:1971:BCC

[42] J. M. Mitchison. *The biology of the cell cycle*. Cambridge University Press, Cambridge, UK, 1971. ISBN 0-521-08251-X, 0-521-09671-5 (paperback). v + 313 pp. LCCN QH605 .M682 1971.

Berg:1972:CEC

[43] H. C. Berg and D. A. Brown. Chemotaxis in *Escheria coli* analyzed by three-dimensional tracking. *Nature*, 239:500–504, 1972. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Cowan:1972:SMN

[44] J. D. Cowan. Stochastic models of neuroelectric activity. In Rice et al. [517], pages 181–182. ISBN 0-226-71115-3. LCCN QC175 .I5 1971. IUPAP Conference on Statistical Mechanics (6th: 1971: Chicago, IL).

Crichton:1972:TM

[45] Michael Crichton. *The Terminal Man*. Ballantine Books, New York, NY, USA, 1972. ISBN 0-394-44768-9. xi + 247 pp. LCCN PS3553.R48 T4.

Fretwell:1972:PSE

[46] S. D. Fretwell. *Populations in a Seasonal Environment*. Princeton University Press, Princeton, NJ, USA, 1972.

ISBN 0-691-08105-0, 0-691-08106-9 (paperback). xxiii + 217 pp. LCCN QL752 .F73.

Sachsenmaier:1972:ISM

[47] W. Sachsenmaier, U. Remy, and R. Plattner-Schobel. Initiation of synchronous mitosis in *Physarum polycephalum*. *Experimental Cell Research*, 73:41–48, 1972. CODEN ECREAL. ISSN 0014-4827.

Andronov:1973:TBD

[48] A. A. Andronov, E. A. Leontovich, I. I. Gordon, and A. G. Maier. *Theory of Bifurcations of Dynamic Systems on a Plane*. Wiley, New York, 1973. ISBN 0-470-03194-8. xiv + 482 pp. LCCN QA845 T4 1967.

Arnold:1973:ODE

[49] V. I. (Vladimir Igorevich) Arnoĺd. *Ordinary Differential Equations*. MIT Press, Cambridge, MA, 1973. ISBN 0-262-01037-2. ix + 280 pp. LCCN QA372.A713. Translated and edited by Richard A. Silverman.

Frazier:1973:DSF

[50] E. A. J. Frazier. DNA synthesis following gross alterations of the nucleocytoplasmic ratio in the ciliate *Stentor coeruleus*. *Developmental Biology*, 34: 77–92, 1973. CODEN DEBIAO. ISSN 0012-1606.

Huxley:1973:NSC

[51] A. F. Huxley. A note suggesting that cross-bridge attachment during muscle contraction may take place in two stages. *Proceedings of the Royal Society of London. Series B. Biological sciences*, 183:83–86, 1973. CODEN PRLBA4. ISSN 0962-8452 (print), 1471-2954 (electronic).

Pavlidis:1973:BOT

[52] T. Pavlidis. *Biological Oscillators: Their Mathematical Analysis*. Academic Press, New York, NY, 1973. ISBN 0-12-547350-8. xiii + 207 pp. LCCN QH527 .P38.

Bukauskas:1974:MTA

[53] F. F. Bukauskas, N. I. Kukushkin , and M. Y. Sakson. Model of a two-dimensional anisotropic syncytium. communication I. *Biofizika*, 19:712–716, 1974. CODEN BIOFAI. ISSN 0006-3029.

Hartwell:1974:GCC

[54] L. H. Hartwell, J. Culotti, J. R. Pringle, and B. J. Reid. Genetic control of the cell division cycle in yeast. *Science*, 183:46–51, 1974. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Hill:1974:TFS

[55] T. L. Hill. Theoretical formalism for the sliding filament model of contraction of striated muscle, part I. *Progress in Biophysics and Molecular Biology*, 28:267–340, 1974. CODEN PBIMAC. ISSN 0079-6107.

Hirsch:1974:DED

[56] M. W. Hirsch and S. Smale. *Differential Equations, Dynamical Systems and Linear Algebra*, volume 60 of *Pure and applied mathematics*. Academic Press, 1974. ISBN 0-12-349550-4. xi + 358 pp. LCCN QA3 .P8 v.60.

Beddington:1975:MIB

[57] J. R. Beddington. Mutual interference between parasites or predators and its effect on searching efficiency. *Journal of Animal Ecology*, 44:331–340, 1975. CODEN JAECAP. ISSN 0021-8790.

Childress:1975:PFS

[58] S. Childress, M. Levandowsky, and E. A. Spiegel. Pattern formation in a suspension of swimming micro-organisms. *Journal of Fluid Mechanics*, 69:595–613, 1975. CODEN JFLSA7. ISSN 0022-1120.

Forster:1975:REB

[59] Francis M. Forster. *Reflex epilepsy, behavioral therapy, and conditional reflexes*. Thomas, Springfield, IL, USA, 1975. ISBN 0-398-03614-4. ix + 318 pp. LCCN RC372 .F67.

Guckenheimer:1975:IPS

[60] J. Guckenheimer. Isochrons and phaseless sets. *Journal of Mathematical Biology*, 1:259–273, 1975. CODEN JMBLAJ. ISSN 0303-6812.

Julian:1975:VMS

[61] F. J. Julian and M. R. Sollins. Variation of muscle stiffness with force at increasing speeds of shortening. *Journal of General Physiology*, 66:287–302, 1975. CODEN JGPLAD. ISSN 0022-1295.

Karlin:1975:FCS

[62] S. Karlin and H. M. Taylor. *A First Course in Stochastic Processes*. Academic Press, New York, NY, second edition, 1975. ISBN 0-12-398552-8. xvi + 557 pp. LCCN QA274 .K371 1975.

Nurse:1975:GCC

[63] P. Nurse. Genetic control of cell size at division in yeast. *Nature*, 256:547–551, 1975. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Watterson:1975:NSS

[64] G. A. Watterson. On the number of segregating sites in genetical models without recombination. *Theoretical Population Biology*, 7:256–276, 1975. CODEN TLPBAQ. ISSN 0040-5809.

Brokaw:1976:CSM

[65] C. J. Brokaw. Computer simulation of movement generating cross-bridges. *Biophysical Journal*, 16:1013–1027, 1976. CODEN BIOJAU. ISSN 0006-3495.

Clerc:1976:DDI

[66] L. Clerc. Directional differences of impulse spread in trabecular muscle from mammalian heart. *Journal of Physiology*, 255:335–346, 1976. CODEN JPHYA7. ISSN 0022-3751.

Cooper:1976:CCS

[67] I. S. Cooper, I. Amin, M. Riklan, J. M. Waltz, and T. P. Poon. Chronic cerebellar stimulation in epilepsy. *Archives of Neurology*, 33:559–570, 1976. CODEN ARNEAS. ISSN 0003-9942.

Lande:1976:NSR

[68] R. Lande. Natural selection and random genetic drift in phenotypic evolution. *Evolution*, 30:314–334, 1976. CODEN EVOLAO. ISSN 0014-3820.

Mackey:1977:OCP

[69] M. C. Mackey and L. Glass. Oscillation and chaos in physiological control sys-

tems. *Science*, 197:287–289, 1977. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Mirouze:1977:EEI

[70] J. Mirouze, J. L. Selam, T. C. Pham, and D. Cavadore. Evaluation of exogenous insulin homeostasis by the artificial pancreas in insulin-dependent diabetes. *Diabetologia*, 13:273–278, 1977. CODEN DBTGAJ. ISSN 0012-186X.

Nagylaki:1977:SOT

[71] T. Nagylaki. *Selection in One- and Two-locus Systems*, volume 15 of *Lecture notes in biomathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1977. ISBN 0-387-08247-6. vii + 208 pp. LCCN QH455 .N331.

Pinsker:1977:ABN

[72] H. M. Pinsker. Aplysia bursting neurons as endogenous oscillators: I: Phase-response curves for pulsed inhibitory synaptic input. *Journal of Neurophysiology*, 40:527–543, 1977. CODEN JONEA4. ISSN 0022-3077.

Rinzel:1977:RNI

[73] J. Rinzel. Repetitive nerve impulse propagation: Numerical results and methods. In Fitzgibbon, III and Walker [518], pages 186–212. ISBN 0-273-01066-2. LCCN QA274.75 .N66.

Vassalle:1977:RAC

[74] M. Vassalle. The relationship among cardiac pacemakers: Overdrive suppression. *Circulation Research*, 41:269–277, 1977. CODEN CIRUAL. ISSN 0009-7330.

Bender:1978:AMM

[75] C. M. Bender and S. A. Orszag. *Advanced Mathematical Methods for Scientists and Engineers*. McGraw-Hill, New York, NY, USA, 1978. ISBN 0-07-004452-X. xiv + 593 pp. LCCN QA371 .B43.

Bensoussan:1978:AAP

[76] Alain Bensoussan, Jacques-Louis Lions, and George Papanicolaou. *Asymptotic analysis for periodic structures*. North-Holland Publishing Co., Amsterdam, The Netherlands, 1978. ISBN 0-444-85172-0. xxiv + 700 pp. LCCN QA379 .B45.

Chapman:1978:ACP

[77] R. A. Chapman and C. H. Fry. An analysis of cable properties of frog ventricular myocardium. *Journal of Physiology*, 283:263–282, 1978. CODEN JPHYA7. ISSN 0022-3751.

Fantes:1978:CTC

[78] P. A. Fantes and P. Nurse. Control of the timing of cell division in fission yeast: cell size mutants reveal a second control pathway. *Experimental Cell Research*, 115:317–329, 1978. CODEN ECREAL. ISSN 0014-4827.

Gilkey:1978:FCW

[79] J. C. Gilkey, L. F. Jaffe, E. B. Ridgeway, and G. T. Reynolds. A free calcium wave traverses the activating egg of the medaka, *Oryzias latipes*. *Journal of Cell Biology*, 76:448–466, 1978. CODEN JCLBA3. ISSN 0021-9525.

Miller:1978:SSE

[80] W. T. Miller, III and D. B. Geselowitz. Simulation studies of the electrocardiogram. I. the normal heart. *Circulation*

Research, 43:301–315, 1978. CODEN CIRUAL. ISSN 0009-7330.

Kawato:1978:BOC

[81] M. Kawato and R. Suzuki. Biological oscillators can be stopped. topological study of a phase response curve. *Biological Cybernetics*, 30:241–284, 1978. CODEN BICYAF. ISSN 0340-1200.

Marshall:1978:PDD

[82] J. S. Marshall. Population dynamics of *Daphnia galeata mendotae* as modified by chronic cadmium stress. *Journal of the Fisheries Research Board of Canada*, 35:461–469, 1978. CODEN JFRBAK. ISSN 0015-296X.

Streeter:1978:TFO

[83] D. D. Streeter, Jr., W. E. Powers, M. A. Ross, and F. Torrent-Guasp. Three-dimensional fiber orientation in the mammalian left ventricular wall. In Baan et al. [519], pages 73–84. ISBN 0-262-18078-2. LCCN RC670.C37.

Tung:1978:BMD

[84] L. Tung. *A bi-domain model for describing ischemic myocardial D-C potentials*. PhD thesis, MIT, Cambridge, MA, 1978.

Best:1979:NSH

[85] E. N. Best. Null space in the Hodgkin–Huxley equations: A critical test. *Biophysical Journal*, 27:87–104, 1979. CODEN BIOJAU. ISSN 0006-3495.

Fantes:1979:EGI

[86] P. A. Fantes. Epistatic gene interactions in the control of division in fission yeast. *Nature*, 279:428–430, 1979. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Glass:1979:PCR

[87] L. Glass and M. C. Mackey. Pathological conditions resulting from instabilities in physiological control systems. *Annals of the New York Academy of Sciences*, 316:214–235, 1979. CODEN ANYAA9. ISSN 0077-8923 (print), 1749-6632 (electronic).

Griffiths:1979:ESD

[88] R. C. Griffiths. Exact sampling distributions from the infinite neutral alleles model. *Advances in Applied Probability*, 11:326–354, 1979. CODEN AAPBBD. ISSN 0001-8678 (print), 1475-6064 (electronic).

Levins:1979:CVE

[89] R. Levins. Coexistence in a variable environment. *American Naturalist*, 114: 765–783, 1979. CODEN AMNTA4. ISSN 0003-0147.

Lynch:1979:PCZ

[90] M. Lynch. Predation, competition, and zooplankton community structure: An experimental study. *Limnology and Oceanography*, 24:253–272, 1979. CODEN LIOCAH. ISSN 0024-3590.

Pastushenko:1979:EBB

[91] V. F. Pastushenko, Y. A. Chizmadzhev, and V. B. Arakelyan. Electric breakdown of bilayer lipid membranes: II. calculations of the membrane lifetime in the steady-state diffusion approximation. *Bioelectrochemistry and Bioenergetics*, 6:53–62, 1979. CODEN BEBEBP. ISSN 0302-4598.

Vibert:1979:RII

[92] J. F. Vibert, M. Davis, and J. P. Segundo. Recurrent inhibition: Its influ-

ence upon transduction and afferent discharges in slowly-adapting stretch receptor organs. *Biological Cybernetics*, 33: 167–178, 1979. CODEN BICYAF. ISSN 0340-1200.

Armstrong:1980:CE

[93] R. A. Armstrong and R. McGehee. Competitive exclusion. *American Naturalist*, 115:151–170, 1980. CODEN AMNTA4. ISSN 0003-0147.

Benz:1980:RSC

[94] R. Benz and U. Zimmermann. Relaxation studies on cell membranes and lipid bilayers in the high electric field range. *Bioelectrochemistry and Bioenergetics*, 7:723–739, 1980. CODEN BEBEBP. ISSN 0302-4598.

Charlesworth:1980:EAP

[95] Brian Charlesworth. *Evolution in Age-Structured Populations*. Cambridge University Press, Cambridge, UK, 1980. ISBN 0-521-29786-9 (paperback), 0-521-23045-4. xiii + 300 pp. LCCN QH455 .C47.

Griffiths:1980:LDD

[96] R. C. Griffiths. Lines of descent in the diffusion approximation of neutral Wright–Fisher models. *Theoretical Population Biology*, 17:37–50, 1980. CODEN TLPBAQ. ISSN 0040-5809.

Gustafson:1980:PDE

[97] Karl E. Gustafson. *Partial differential equations and Hilbert space methods*. Wiley, New York, 1980. ISBN 0-471-04089-4. xv + 270 pp. LCCN QA374 .G97.

Guttman:1980:CRF

[98] R. Guttman, S. Lewis, and J. Rinzel. Control of repetitive firing in squid axon membrane as a model for a neurooscillator. *Journal of Physiology*, 305:377–395, 1980. CODEN JPHYA7. ISSN 0022-3751.

Herbert:1980:CCD

[99] P. D. N. Herbert and T. J. Crease. Clonal coexistence in *Daphnia pulex*: Another planktonic paradox. *Science*, 207:1363–1365, 1980. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Irwin:1980:SDS

[100] M. C. Irwin. *Smooth Dynamical Systems*, volume 94 of *Pure and applied mathematics*. Academic Press, 1980. ISBN 0-12-374450-4. x + 259 pp. LCCN QA3 .P8 v.94.

Lepeschkin:1980:CPG

[101] E. Lepeschkin, H. C. Herrlich, S. Rush, J. L. Jones, and R. E. Jones. Cardiac potential gradients between defibrillation electrodes. *Medical Instrumentation*, 14: 57, 1980. CODEN MLISBY. ISSN 0090-6689.

Odell:1980:QTS

[102] G. M. Odell. Qualitative theory of systems of ordinary differential equations, including phase plane analysis and the use of the hopf bifurcation theorem. In Segel [520], pages 649–727. ISBN 0-521-22925-1. LCCN QH506 .M38.

Sanchez-Palencia:1980:LNP

[103] E. Sanchez-Palencia. Non-homogeneous media and vibration theory. In *Lecture Notes in Physics*, pages ix + 398. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1980.

Winfree:1980:GBT

[104] Arthur T. Winfree. *The Geometry of Biological Time*, volume 8 of *Biomathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1980. ISBN 0-387-09373-7 (New York). 3-540-09373-7 (Berlin). xiii + 530 pp. LCCN QH527 .W55 1980.

Chesson:1981:EVP

[105] P. L. Chesson and R. R. Warner. Environmental variability promotes coexistence in lottery competitive systems. *American Naturalist*, 117:923–943, 1981. CODEN AMNTA4. ISSN 0003-0147.

Eshel:1981:KSS

[106] I. Eshel and U. Motro. Kin selection and strong evolutionary stability of mutual help. *Theoretical Population Biology*, 19:420–433, 1981. CODEN TLPBAQ. ISSN 0040-5809.

Falconer:1981:IQG

[107] D. S. Falconer. *Introduction to Quantitative Genetics*. Longman Scientific and Technical, Harlow, Essex, UK, second edition, 1981. ISBN 0-470-20474-5, 0-582-44195-1. viii + 340 pp. LCCN QH452.7 .F34 1986.

Guevara:1981:PLP

[108] M. R. Guevara, L. Glass, and A. Shrier. Phase locking, period doubling bifurcations and irregular dynamics in periodically stimulated cardiac cells. *Science*, 214:1350–1353, 1981. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Kawato:1981:TSS

[109] M. Kawato. Transient and steady state phase response curves of limit cycle oscillators. *Journal of Mathematical Biology*, 12:13–30, 1981. CODEN JMBLAJ. ISSN 0303-6812.

Kohn:1981:PIP

[110] A. F. Kohn, A. Freitas da Rocha, and J. P. Segundo. Presynaptic irregularity and pacemaker inhibition. *Biological Cybernetics*, 41:5–18, 1981. CODEN BICYAF. ISSN 0340-1200.

Nurse:1981:GAC

[111] P. Nurse. Genetics analysis of the cell cycle. In Glover and Hopwood [523], pages 291–315. ISBN 0-521-23748-3. LCCN QR1 .S7 v.31.

Pringle:1981:SCC

[112] J. R. Pringle and L. H. Hartwell. The *Saccharomyces cerevisiae* cell cycle. In Strathern et al. [522], pages 97–142. ISBN 0-87969-149-2. LCCN QK623.S23 M643 1982.

Reijnders:1981:PDH

[113] P. J. H. Reijnders, H. E. Drescher, J. L. van Haaften, E. Bogebjerg Hansen, and S. Tougaard. Population dynamics of the harbour seal in the Wadden Sea. In Reijnders and Wolff [521], pages 19–32. ISBN 90-6191-057-9. LCCN QL713.2 .M364 1982.

Goulden:1982:BSE

[114] C. E. Goulden, L. L. Henry, and A. J. Tessier. Body size, energy reserves, and competitive ability in three species of cladocera. *Ecology*, 63:1780–1789, 1982. CODEN ECOLAR. ISSN 0012-9658.

Guevara:1982:PLP

[115] M. R. Guevara and L. Glass. Phase locking, period doubling bifurcations, and

chaos in a mathematical model of a periodically driven oscillator: A theory for the entrainment of biological oscillators and the generation of cardiac dysrhythmias. *Journal of Mathematical Biology*, 14:1–23, 1982. CODEN JMBLAJ. ISSN 0303-6812.

Hartman:1982:ODE

[116] Philip Hartman. *Ordinary Differential Equations*. Birkhäuser Boston Inc., Cambridge, MA, USA, second edition, 1982. ISBN 3-7643-3068-6. xiv + 612 pp. LCCN QA372 .H33 1982.

Heiden:1982:DPD

[117] U. an der Heiden and M. C. Mackey. The dynamics of production and destruction: Analytic insight into complex behavior. *Journal of Mathematical Biology*, 16:75–101, 1982. CODEN JMBLAJ. ISSN 0303-6812.

Hoppensteadt:1982:PLB

[118] F. C. Hoppensteadt and J. Keener. Phase locking of biological clocks. *Journal of Mathematical Biology*, 15:339–349, 1982. CODEN JMBLAJ. ISSN 0303-6812.

Kingman:1982:EEL

[119] J. F. C. Kingman. Exchangeability and the evolution of large populations. In Koch and Spizzichino [524], pages 97–112. ISBN 0-444-86403-2. LCCN QA273.A1 I55 1981.

Kingman:1982:GLP

[120] J. F. C. Kingman. On the genealogy of large populations. *Journal of Applied Probability*, 19A:27–43, 1982. CODEN JPRBAM. ISSN 0021-9002 (print), 1475-6072 (electronic). URL `http://www.jstor.org/stable/3213548`.

McQueen:1982:FDM

[121] D. M. McQueen, C. S. Peskin, and E. L. Yellin. Fluid dynamics of the mitral valve: physiological aspects of a mathematical model. *American Journal of Physiology*, 242:H1095–H1110, 1982. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic).

Paloheimo:1982:GMD

[122] J. E. Paloheimo, S. J. Crabtree, and W. D. Taylor. Growth model of *Daphnia*. *Canadian Journal of Fisheries and Aquatic Sciences*, 39:598–606, 1982. CODEN CJFSDX. ISSN 0706-652X.

Watterson:1982:MSA

[123] G. A. Watterson. Mutant substitutions at linked nucleotide sites. *Advances in Applied Probability*, 14:206–224, 1982. CODEN AAPBBD. ISSN 0001-8678 (print), 1475-6064 (electronic).

Arnold:1983:GMT

[124] V. I. Arnold. *Geometrical Methods in the Theory of Ordinary Differential Equations*, volume 250 of *Grundlehren der mathematischen Wissenschaften*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1983. ISBN 0-387-90681-9. x + 334 pp. LCCN QA372 .A6913 1983. Translated by J. Szucs; English translation edited by M. Levi.

Berg:1983:RWB

[125] Howard C. Berg. *Random Walks in Biology*. Princeton University Press, 1983. ISBN 0-691-00064-6. 152 pp. LCCN QH323.5.B45 1993. US$12.95.

Evans:1983:CPS

[126] T. Evans, E. T. Rosenthal, J. Youngbloom, D. Distel, and T. Hunt. Cyclin: a protein specified by maternal mRNA in sea urchin eggs that is destroyed at each cleavage division. *Cell*, 33:389–396, 1983. CODEN CELLB5. ISSN 0092-8674.

Glass:1983:BCP

[127] L. Glass, M. R. Guevara, A. Shrier, and R. Perez. Bifurcation and chaos in a periodically stimulated cardiac oscillator. *Physica*, 7D:89–101, 1983. CODEN PHYSAG. ISSN 0031-8914 (print), 1873-1767 (electronic).

Guckenheimer:1983:NOD

[128] J. Guckenheimer and P. J. Holmes. *Nonlinear Oscillations, Dynamical Systems and Bifurcations of Vector Fields*, volume 42 of *Applied mathematical sciences*. Springer, New York, 1983. ISBN 0-387-90819-6. xii + 459 pp. LCCN QA867.5 .G8 1993.

Hudson:1983:PNA

[129] R. R. Hudson. Properties of a neutral allele model with intragenic recombination. *Theoretical Population Biology*, 23:183–201, 1983. CODEN TLPBAQ. ISSN 0040-5809.

Martinez:1983:BSN

[130] O. Diez Martinez and J. P. Segundo. Behavior of a single neuron in a recurrent excitatory loop. *Biological Cybernetics*, 47:33–41, 1983. CODEN BICYAF. ISSN 0340-1200.

McQueen:1983:CDP

[131] D. M. McQueen and C. S. Peskin. Computer-assisted design of pivoting-disc prosthetic mitral valves. *Journal of thoracic and cardiovascular surgery*, 86: 126–135, 1983. CODEN JTCSAQ. ISSN 0022-5223.

Porter:1983:FRF

[132] K. G. Porter, J. J. D. Orcutt, and J. Gerritsen. Functional response and fitness in a generalist filter feeder, *Daphnia magna* (Cladocera: Crustacea). *Ecology*, 64:735–742, 1983. CODEN ECOLAR. ISSN 0012-9658.

Tajima:1983:ERD

[133] F. Tajima. Evolutionary relationships of DNA sequences in finite population. *Genetics*, 105:437–460, 1983. CODEN GENTAE. ISSN 0016-6731.

Gerhart:1984:CCD

[134] J. Gerhart, M. Wu, and M. W. Kirschner. Cell cycle dynamics of an M-phase-specific cytoplasmic factor in *Xenopus laevis* oocytes and eggs. *Journal of Cell Biology*, 98:1247–1255, 1984. CODEN JCLBA3. ISSN 0021-9525.

Glass:1984:DPE

[135] L. Glass and A. T. Winfree. Discontinuities in phase-resetting experiments. *American Journal of Physiology*, 246: R251–R258, 1984. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic).

Glass:1984:GBP

[136] L. Glass, M. R. Guevara, J. Bélair, and A. Shrier. Global bifurcations of a periodically forced biological oscillator. *Physical Review A*, 29:1348–1357, 1984. CODEN PLRAAN. ISSN 1050-2947 (print), 1094-1622, 1538-4446, 1538-4519.

Hopfield:1984:NNG

[137] J. J. Hopfield. Neural networks with graded responses have collective computational properties like those of two-state neurons. *Proceedings of the National Academy of Sciences of the United States of America*, 81:3088–3092, 1984. CODEN PNASA6. ISSN 0027-8424 (print), 1091-6490 (electronic).

Keener:1984:GBP

[138] J. P. Keener and L. Glass. Global Bifurcations of a periodically forced nonlinear oscillator. *Journal of Mathematical Biology*, 21:175–190, 1984. CODEN JMBLAJ. ISSN 0303-6812.

Mackey:1984:DRI

[139] M. C. Mackey and U. an der Heiden. The dynamics of recurrent inhibition. *Journal of Mathematical Biology*, 19:211–225, 1984. CODEN JMBLAJ. ISSN 0303-6812.

McMahon:1984:MRL

[140] T. A. McMahon. *Muscles, Reflexes, and Locomotion*. Princeton University Press, Princeton, NJ, USA, 1984. ISBN 0-691-08322-3, 0-691-02376-X (paperback). xvi + 331 pp. LCCN QP321 .M338 1984.

Saunders:1984:GNS

[141] I. W. Saunders, S. Tavaré, and G. A. Watterson. On the genealogy of nested subsamples from a haploid population. *Advances in Applied Probability*, 16: 471–491, 1984. CODEN AAPBBD. ISSN 0001-8678 (print), 1475-6064 (electronic).

Shmida:1984:CPS

[142] A. Shmida and S. Ellner. Coexistence of plant species with similar niches. *Vegetatio*, 58:29–55, 1984. CODEN VGTOA4. ISSN 0042-3106.

Tyson:1984:CND

[143] J. J. Tyson. The control of nuclear division in *Physarum polycephalum*. In Nurse and Streiblova [525], pages 175–190. ISBN 0-442-30778-0, 0-17-771103-5. LCCN QR73.7 .M53 1984.

Drazin:1985:HS

[144] P. G. Drazin and W. H. Reid. *Hydrodynamic Stability*. Cambridge University Press, New York, NY, 1985.

Ellner:1985:EGS

[145] S. Ellner. ESS germination strategies in randomly varying environments. *Theoretical Population Biology*, 28:50–116, 1985. CODEN TLPBAQ. ISSN 0040-5809.

Heiden:1985:SPS

[146] U. an der Heiden. Stochastic properties of simple differential-delay equations. In Meinardus and Nurnberger [527], page 351. ISBN 3-7643-1733-7. LCCN QA371 .D37 1985.

Holt:1985:PDT

[147] R. D. Holt. Population dynamics in two-patch environments; some anomalous consequences of an optimal habitat distribution. *Theoretical Population Biology*, 28:181–208, 1985. CODEN TLPBAQ. ISSN 0040-5809.

Huxley:1985:CBD

[148] H. E. Huxley and M. Kress. Crossbridge behaviour during muscle contrac-

tion. *Journal of Muscle Research Cell Motility*, 6:153–161, 1985. CODEN JMRMD3. ISSN 0142-4319.

Kessler:1985:CCP

[149] J. O. Kessler. Co-operative and concentrative phenomena of swimming microorganisms. *Contemporary physics*, 26: 147–166, 1985. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kessler:1985:HFM

[150] J. O. Kessler. Hydrodynamic focusing of motile algal cells. *Nature*, 313:218–220, 1985. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

McQueen:1985:CDB

[151] D. M. McQueen and C. S. Peskin. Computer-assisted design of butterfly bileaflet valves for the mitral position. *Scandinavian Journal of Thoracic and Cardiovascular Surgery*, 19: 139–148, 1985. CODEN SJTCAO. ISSN 0036-5580.

Meisner:1985:ETA

[152] J. S. Meisner, D. M. McQueen, Y. Ishida, H. O. Vetter, U. Bortolotti, J. A. Strom, R. W. M. Frater, C. S. Peskin, and E. L. Yellin. Effects of timing of atrial systole on LV filling and mitral valve closure: computer and dog studies. *American Journal of Physiology*, 249: H604–H619, 1985. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic).

Murdoch:1985:TDT

[153] W. W. Murdoch and E. McCauley. Three distinct types of dynamic behavior shown by a single planktonic system. *Nature*, 316:628–630, 1985. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Othmer:1985:MAT

[154] H. G. Othmer. The mathematical aspect of temporal oscillations in reacting systems. In Field and Burger [526], pages 7–54. ISBN 0-471-89384-6. LCCN QD502 .O83 1985. US$85.00.

Othmer:1985:MSR

[155] H. G. Othmer, P. B. Monk, and P. E. Rapp. A model for signal relay and adaptation in *Dictyostelium discoideum*. Part II. Analytical and numerical results. *Mathematical Biosciences*, 77:77–139, 1985. CODEN MABIAR. ISSN 0025-5564.

Petrofsky:1985:CCM

[156] J. S. Petrofsky and C. A. Phillips. Closed-loop control of movement of skeletal muscle. *CRC critical reviews in biomedical engineering*, 13:35–96, 1985. CODEN CRBEDR. ISSN 0278-940X.

Sommer:1985:GCB

[157] J. R. Sommer and B. Scherer. Geometry of cell and bundle appositions in cardiac muscle: light microscopy. *American Journal of Physiology*, 248:H792–H803, 1985. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic).

Woledge:1985:EAM

[158] R. Woledge, N. Curtin, and E. Homsher. *Energetic Aspects of Muscle Contraction*. Academic Press, New York, NY, 1985. ISBN 0-12-761580-6. xiii + 359 pp. LCCN QP321 .W58 1985.

Yanagida:1985:SDA

[159] T. Yanagida, T. Arata, and F. Oosawa. Sliding distance of actin filament induced by a myosin cross-bridge during one ATP hydrolysis cycle. *Nature*, 316:366–369, 1985. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Chen:1986:PGF

[160] P-S. Chen, P. D. Wolf, F. J. Claydon, III, E. G. Dixon, H. J. Vidaillet, Jr., N. D. Danieley, T. C. Pilkington, and R. E. Ideker. The potential gradient field created by epicardial defibrillation electrodes in dogs. *Circulation*, 74:626–636, 1986. CODEN CIRCAZ. ISSN 0009-7322.

Cooke:1986:MMC

[161] R. Cooke. The mechanism of muscle contraction. *CRC Critical Reviews in Biochemistry*, 21:53–118, 1986. CODEN CRBCAI. ISSN 0045-6411.

Devaney:1986:ICD

[162] Robert L. Devaney. *An Introduction to Chaotic Dynamical Systems*. W. Benjamin, New York, 1986. ISBN 0-8053-1601-9. xii + 320 pp. LCCN QA614.8 .D48 1986.

Doedel:1986:ASC

[163] E. Doedel. AUTO: Software for continuation and bifurcation problems in ordinary differential equations. Technical report, California Institute of Technology, 1986.

Ellner:1986:GDP

[164] S. Ellner. Germination dimorphisms and parent-offspring conflict in seed germination. *Journal of Theoretical Biology*, 123:173–185, 1986. CODEN JTBIAP. ISSN 0022-5193.

Glaser:1986:AVR

[165] R. W. Glaser. Appearance of a "critical voltage" in reversible electric breakdown. *Studia Biophysica*, 16:77–86, 1986. CODEN STBIBN. ISSN 0081-6337.

Guevara:1986:PRS

[166] M. R. Guevara, A. Shrier, and L. Glass. Phase resetting of spontaneously beating embryonic ventricular heart cell aggregates. *American Journal of Physiology*, 251:H1298–H1305, 1986. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic).

Hedrick:1986:GPH

[167] P. W. Hedrick. Genetic polymorphism in heterogeneous environments: a decade later. *Annual Review of Ecology and Systematics*, 17:535–566, 1986. CODEN ARECBC. ISSN 0066-4162.

Kessler:1986:ICF

[168] J. O. Kessler. Individual and collective fluid dynamics of swimming cells. *Journal of Fluid Mechanics*, 173:191–205, 1986. CODEN JFLSA7. ISSN 0022-1120.

Metz:1986:DPS

[169] J. A. J. Metz and O. Diekmann. *The Dynamics of Physiologically Structured Populations*, volume 68 of *Lecture Notes in Biomathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1986. ISBN 0-387-16786-2 (New York), 3-540-16786-2 (Berlin). xii + 511 pp. LCCN QH352 .D961 1986.

Plonsey:1986:EMM

[170] R. Plonsey and R. C. Barr. Effect of microscopic and macroscopic discontinuities on the response of cardiac tissue to defibrillating (stimulating) currents. *Medical & Biological Engineering & Computing*, 24:130–136, 1986. CODEN MBECDY. ISSN 0140-0118.

Powell:1986:QTR

[171] K. T. Powell, E. G. Derrick, and J. C. Weaver. A quantitative theory of reversible electrical breakdown of bilayer membranes. *Bioelectrochemistry and Bioenergetics*, 15:243–255, 1986. CODEN BEBEBP. ISSN 0302-4598.

Russell:1986:CFI

[172] P. Russell and P. Nurse. *cdc*25^+ functions as an inducer in the mitotic control of fission yeast. *Cell*, 45:145–153, 1986. CODEN CELLB5. ISSN 0092-8674.

Simanis:1986:CCC

[173] V. Simanis and P. Nurse. The cell cycle control gene *cdc*2 of fission yeast encodes a protein kinase potentially regulated by phosphorylation. *Cell*, 45:261–268, 1986. CODEN CELLB5. ISSN 0092-8674.

Swann:1986:PPI

[174] K. Swann and M. Whitaker. The part played by inositol trisphosphate and calcium in the propagation of the fertilization wave in sea urchin eggs. *Journal of Cell Biology*, 103(6 (part 1)):2333–2342, 1986. CODEN JCLBA3. ISSN 0021-9525.

Woods:1986:RTR

[175] N. M. Woods, K. S. R. Cuthberson, and P. H. Cobbold. Repetitive transient rises in cytoplasmic free calcium in hormone-stimulated hepatocytes. *Nature*, 319:600–602, 1986. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Zachmanoglou:1986:IPD

[176] E. C. Zachmanoglou and Dale W. Thoe. *Introduction to Partial Differential Equations with Applications*. Dover, 1986. ISBN 0-486-65251-3. x + 405 pp. LCCN QA377 .Z32 1986. US$9.95.

Bull:1987:EPV

[177] J. J. Bull. Evolution of phenotypic variance. *Evolution*, 41:313–315, 1987. CODEN EVOLAO. ISSN 0014-3820.

Cann:1987:MDH

[178] R. Cann, M. Stoneking, and A. C. Wilson. Mitochondrial DNA and human evolution. *Nature*, 325:31–36, 1987. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Carvalho:1987:CED

[179] G. R. Carvalho and D. J. Crisp. The clonal ecology of *Daphnia magna* (crustacea: cladocera) I. Temporal changes in the clonal structure of a natural population. *Journal of Animal Ecology*, 56: 453–468, 1987. CODEN JAECAP. ISSN 0021-8790.

Derrida:1987:LEP

[180] B. Derrida, K. Mecheri, and J. L. Pichard. Lyapounov exponents of products of random matrices: weak disorder expansion. *Journal de Physique*, 48:733–740, 1987. CODEN JOPQAG. ISSN 0302-0738.

Glass:1987:UBC

[181] L. Glass, M. R. Guevara, and A. Shrier. Universal bifurcations and the classifi-

cation of cardiac arrhythmias. *Annals of the New York Academy of Sciences*, 504:168–178, 1987. CODEN ANYAA9. ISSN 0077-8923 (print), 1749-6632 (electronic).

Heiden:1987:MFA

[182] U. an der Heiden and M. C. Mackey. Mixed feedback: A paradigm for regular and irregular oscillations. In Rensing et al. [529], pages 30–46. ISBN 0-387-17765-5. LCCN QP84.6 .T44 1987.

Ikeda:1987:HDC

[183] I. Ikeda and K. Matsumoto. High dimensional chaotic behavior in systems with time-delayed feedback. *Physica D*, 29:223–235, 1987. CODEN PDNPDT. ISSN 0167-2789 (print), 1872-8022 (electronic).

Jordan:1987:NOD

[184] D. W. Jordan and P. Smith. *Nonlinear Ordinary Differential Equations*. Clarendon Press, Oxford, second edition, 1987. ISBN 0-19-859657-X, 0-19-859656-1 (paperback). ix + 381 pp. LCCN QA372 .J581 1987.

Krassowska:1987:CFS

[185] W. Krassowska, T. C. Pilkington, and R. E. Ideker. The closed form solution to the periodic core-conductor model using asymptotic analysis. *IEEE Transactions on Biomedical Engineering*, 34 (519–531), 1987. CODEN IEBEAX. ISSN 0018-9294.

Krebs:1987:IBE

[186] J. R. Krebs and N. B. Davies. *An Introduction to Behavioral Ecology*. Sinauer Associates, Inc., Sunderland, MA, second edition, 1987. ISBN 0-87893-431-6, 0-87893-428-6 (paperback). ix + 389 pp. LCCN QH371 .K731 1987b.

McCauley:1987:CSP

[187] E. McCauley and W. W. Murdoch. Cyclic and stable populations: Plankton as paradigm. *American Naturalist*, 129: 97–121, 1987. CODEN AMNTA4. ISSN 0003-0147.

Ripley:1987:SS

[188] Brian D. Ripley. *Stochastic Simulation*. Wiley series in probability and mathematical statistics. John Wiley and Sons, New York, NY, USA; London, UK; Sydney, Australia, 1987. ISBN 0-471-81884-4. xi + 237 pp. LCCN QA76.9.C65 R571 1987. US$29.95.

Rodhouse:1987:CBC

[189] P. G. Rodhouse and C. M. Roden. Carbon budget for a coastal inlet in relation to an intensive cultivation of suspension feeding bivalve molluscs. *Marine Ecology Progress Series*, 36:225–236, 1987. CODEN MESEDT. ISSN 0171-8630.

Russell:1987:NRM

[190] P. Russell and P. Nurse. Negative regulation of mitosis by $wee1^+$, a gene encoding a protein kinase homolog. *Cell*, 49: 559–567, 1987. CODEN CELLB5. ISSN 0092-8674.

Seger:1987:WIB

[191] J. Seger and H. J. Brockmann. What is beg-hedging? *Oxford Surveys in Evolutionary Biology*, 4:182–211, 1987. CODEN OSEBE3. ISSN 0265-072X.

Winfree:1987:WTB

[192] A. T. Winfree. *When Time Breaks Down: The Three Dimensional Dynamics of Electrochemical Waves and Car-*

diac Arrhythmia. Princeton University Press, Princeton, NJ, USA, 1987. ISBN 0-691-08443-2, 0-691-02402-2 (paperback). xiv + 339 pp. LCCN QP84.6 .W56 1987.

Andrews:1988:HFO

[193] B. J. Andrews, R. H. Baxendale, R. Barnett, G. F. Phillips, T. Yamazaki, J. P. Paul, and P. Freeman. Hydrid FES orthosis incorporating closed loop control and sensory feedback. *Journal of biomedical engineering*, 10:189–195, 1988. CODEN JBIEDR. ISSN 0141-5425.

Bohrer:1988:SME

[194] R. N. Bohrer and W. Lampert. Simultaneous measurement of the effect of food concentration on assimilation and respiration in *Daphnia magna* straus. *Functional Ecology*, 2:463–471, 1988. CODEN FECOE5. ISSN 0269-8463.

Chernysh:1988:MED

[195] A. M. Chernysh, V. Y. Tabak, and M. S. Bogushevich. Mechanisms of electrical defibrillation of the heart. *Resuscitation*, 16:169–178, 1988. CODEN RSUSBS. ISSN 0300-9572.

Frazier:1988:EFR

[196] D. W. Frazier, W. Krassowska, P-S. Chen, P. D. Wolf, E. G. Dixon, W. M. Smith, and R. E. Ideker. Extracellular field required for excitation in three-dimensional anisotropic canine myocardium. *Circulation Research*, 63: 147–164, 1988. CODEN CIRUAL. ISSN 0009-7330.

Glaser:1988:REB

[197] R. W. Glaser, S. L. Leikin, L. V. Chernomordik, V. F. Pastushenko, and A. I. Sokirko. Reversible electrical breakdown of lipid bilayers: formation and evolution of pores. *Biochimica et Biophysica Acta*, 940:275–287, 1988. CODEN ABBPAP. ISSN 0001-5253.

Glass:1988:CCR

[198] L. Glass and M. C. Mackey. *From Clocks to Chaos: The Rhythms of Life*. Princeton University Press, Princeton, NJ, USA, 1988. ISBN 0-691-08495-5 (hardcover), 0-691-08496-3 (paperback). xvii + 248 pp. LCCN QH527 .G5951 1988.

Guevara:1988:PLR

[199] M. R. Guevara, A. Shrier, and L. Glass. Phase locked rhythms in periodically stimulated heart cell aggregates. *American Journal of Physiology*, 254:H1–H10, 1988. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic). Heart Circ. Physiol. 23.

Hairston:1988:IVS

[200] N. G. Hairston, Jr. Interannual variation in seasonal predation: its origin and ecological importance. *Limnology and Oceanography*, 33:1245–1253, 1988. CODEN LIOCAH. ISSN 0024-3590.

Hounsgaard:1988:BDC

[201] J. Hounsgaard, H. Hultborn, B. Jesperson, and O. Kiehn. Bistability of α-motoneurones in the decerebrate cat and in the acute spinal cat after intravenous 5-hydydroxytryptophan. *Journal of Physiology*, 405:345–367, 1988. CODEN JPHYA7. ISSN 0022-3751.

Claydon:1988:VCM

[202] F. J. Claydon, III, T. C. Pilkington, A. S. L. Tang, M. N. Morrow, and R. E. Ideker. A volume conductor model of

the thorax for the study of defibrillation fields. *IEEE Transactions on Biomedical Engineering*, BME-35:331–341, 1988. CODEN IEBEAX. ISSN 0018-9294.

Jacob:1988:RSC

[203] R. Jacob, J. E. Merritt, T. J. Hallam, and T. J. Rink. Repetitive spikes in cytoplasmic calcium evoked by histamine in human endothelial cells. *Nature*, 335: 40–45, September 1988. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Karlin:1988:NPM

[204] S. Karlin. Non-gaussian phenotypic models of quantitative traits. In Eisen et al. [530], pages 123–144. ISBN 0-87893-900-8, 0-87893-901-6 (paperback).

Koshland:1988:CMS

[205] D. E. Koshland. Chemotaxis as a model second-messenger system. *Biochemistry*, 27(16):5829–5834, 1988. CODEN BICHAW. ISSN 0006-2960.

Kothiyal:1988:TCM

[206] K. P. Kothiyal, B. Shankar, L. J. Fogelson, and N. V. Thakor. Three-dimensional computer model of electric fields in internal defibrillation. *Proceedings of the IEEE*, 76:720–730, 1988. CODEN IEEPAD. ISSN 0018-9219 (print), 1558-2256 (electronic).

Lin:1988:MAD

[207] C. C. Lin and L. A. Segel. *Mathematics Applied to Deterministic Problems in the Natural Sciences*. SIAM Press, Philadelphia, PA, 1988. ISBN 0-89871-229-7. xxi + 609 pp. LCCN QA37.2 .L55 1988.

Lohka:1988:PMF

[208] M. J. Lohka, M. K. Hayes, and J. L. Maller. Purification of maturation-promoting factor, an intracellular regulator of early mitotic events. *Proceedings of the National Academy of Sciences of the United States of America*, 85:3009–3013, 1988. CODEN PNASA6. ISSN 0027-8424 (print), 1091-6490 (electronic).

Longtin:1988:COH

[209] A. Longtin and J. G. Milton. Complex oscillations in the human light reflex with ‘mixed’ and delayed feedback. *Mathematical Biosciences*, 90:183–199, 1988. CODEN MABIAR. ISSN 0025-5564.

Lupu-Meiri:1988:HAR

[210] M. Lupu-Meiri, H. Shapira, and Y. Oron. Hemispheric asymmetry of rapid chloride responses to inositol trisphosphate and calcium in *Xenopus* oocytes. *FEBS Letters*, 240:83–87, 1988. CODEN FEBLAL. ISSN 0014-5793.

McCauley:1988:SMV

[211] E. McCauley, W. W. Murdoch, and S. Watson. Simple models and variation in plankton densities among lakes. *American Naturalist*, 132:383–403, 1988. CODEN AMNTA4. ISSN 0003-0147.

Milton:1988:IPC

[212] J. G. Milton, A. Longtin, T. H. Kirkham, and G. S. Francis. Irregular pupil cycling as a characteristic abnormality in patients with demyelinative optic neuropathy. *American Journal of Ophthalmology*, 105:402–407, 1988. CODEN AJOPAA. ISSN 0002-9394.

Osterhaus:1988:IVC

[213] A. D. M. E. Osterhaus and E. J. Vedder. Identification of virus causing recent seal deaths. *Nature*, 338:20, 1988. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Pedley:1988:GBP

[214] T. J. Pedley, N. A. Hill, and J. O. Kessler. The growth of bioconvection patterns in a uniform suspension of gyrotactic micro-organisms. *Journal of Fluid Mechanics*, 195:223–237, 1988. CODEN JFLSA7. ISSN 0022-1120.

Reulen:1988:SRD

[215] J. P. H. Reulen, J. T. Marcus, M. J. van Gilst, D. Koops, J. E. Bos, G. Tiesinga, F. R. de Vries, and K. Boshuizen. Stimulation and recording of dynamic pupillary reflex: the IRIS technique. *Medical & Biological Engineering & Computing*, 26:27–32, 1988. CODEN MBECDY. ISSN 0140-0118.

Schoenberg:1988:CMA

[216] M. Schoenberg. Characterization of the myosin adenosine triphosphate (M•ATP) crossbridge in rabbit and frog skeletal muscle fibers. *Biophysical Journal*, 54:135–148, 1988. CODEN BIOJAU. ISSN 0006-3495.

Turelli:1988:PGM

[217] M. Turelli. Population genetic models for polygenic variation and evolution. In Eisen et al. [530], pages 601–618. ISBN 0-87893-900-8, 0-87893-901-6 (paperback).

Urabe:1988:EFC

[218] J. Urabe. Effect of food conditions on the net production of *Daphnia galeata*: separate effects on growth and reproduction. *Bulletin of Plankton Society of Japan*, 35:159–174, 1988. CODEN PSJBAZ. ISSN 0387-8961.

Alberts:1989:MBC

[219] B. Alberts, D. Bray, J. Lewis, M. Raff, K. Roberts, and J. D. Watson. *Molecular biology of the cell*. Garland Publishing, Inc., New York, NY, USA, second edition, 1989. ISBN 0-8240-3695-6, 0-8240-3696-4 (paperback). xliii + 1294 + 67 pp. LCCN QH581.2 .M64 1994.

Arditi:1989:CPD

[220] R. Arditi and L. R. Ginzburg. Coupling in predator-prey dynamics: Ratio-dependence. *Journal of Theoretical Biology*, 139:311–326, 1989. CODEN JTBIAP. ISSN 0022-5193.

Barton:1989:EQG

[221] N. H. Barton and M. Turelli. Evolutionary quantitative genetics: How little do we know? *Annual Review of Genetics*, 23:337–370, 1989. CODEN ARVGB7. ISSN 0066-4197.

Bell:1989:SPM

[222] John B. Bell, Phillip Colella, and Harland M. Glaz. A second-order projection method for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 85(2):257–283, December 1989. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

Caswell:1989:MPM

[223] Hal Caswell. *Matrix Population Models: Construction, Analysis, and Interpretation*. Sinauer Associates, Inc., Sunderland, MA, 1989. ISBN 0-87893-094-9 (hardcover), 0-87893-093-0 (paperback). xiv + 328 pp. LCCN QH352 .C3751

1989. US$28.95 (paperback), US$50.00 (hardcover).

Chernomordik:1989:EBL

[224] L. V. Chernomordik and Y. A. Chizmadzhev. Electrical breakdown of lipid bilayer membranes. phenomenology and mechanism. In Neumann et al. [531], pages 83–95. ISBN 0-306-43043-6. LCCN QH585.5.E48 E44 1989.

Chesson:1989:ISB

[225] P. L. Chesson and S. Ellner. Invasibility and stochastic boundedness in monotonic competition models. *Journal of Mathematical Biology*, 27:117–138, 1989. CODEN JMBLAJ. ISSN 0303-6812.

Donkin:1989:QSR

[226] P. Donkin, J. Widdows, S. V. Evans, C. M. Worral, and M. Carr. Quantitative structure-activity relationships for the effect of hydrophobic organic chemicals on rate of feeding by mussels (*Mytilus edulis*). *Q. Aquatic Toxicology*, 15:277–294, 1989.

Falconer:1989:IQG

[227] D. S. Falconer. *Introduction to Quantitative Genetics*. John Wiley and Sons, New York, NY, USA; London, UK; Sydney, Australia, third edition, 1989. ISBN 0-470-21162-8 (Wiley), 0-582-01642-8 (pbk). xii + 438 pp. LCCN QH452.7 .F341 1989.

Griffiths:1989:GPI

[228] R. C. Griffiths. Genealogical-tree probabilities in the infinitely-many-sites model. *Journal of Mathematical Biology*, 27:667–68, 1989. CODEN JMBLAJ. ISSN 0303-6812.

Harris:1989:CSC

[229] Elizabeth H. Harris. *The* Chlamydomonas *Sourcebook: a comprehensive guide to biology and laboratory use*. Academic Press, San Diego, 1989. ISBN 0-12-326880-X. xiv + 780 pp. LCCN QK569.C486H37 1989.

Hill:1989:GBP

[230] N. A. Hill, T. J. Pedley, and J. O. Kessler. Growth of bioconvection patterns in a suspension of gyrotactic micro-organisms in a layer of finite depth. *Journal of Fluid Mechanics*, 208: 509–543, 1989. CODEN JFLSA7. ISSN 0022-1120.

Hoyt:1989:DTS

[231] R. H. Hoyt, M. L. Cohen, and J. E. Saffitz. Distribution and three-dimensional structure of intercellular junctions in canine myocardium. *Circulation Research*, 64:563–574, 1989. CODEN CIRUAL. ISSN 0009-7330.

Jackson:1989:PND

[232] E. A. Jackson. *Perspectives of Nonlinear Dynamics*. Cambridge University Press, Cambridge, 1989. ISBN 0-521-42632-4 (vol 1, paperback), 0-521-34504-9 (vol. 1), 0-521-42633-2 (vol. 2, paperback), 0-521-35458-7 (vol. 2). LCCN QA845 .J28 1989 v.1-2 (1989-1990). Two volumes.

Lampert:1989:ASV

[233] W. Lampert. The adaptive significance of vertical migration of zooplankton. *Functional Ecology*, 3:21–27, 1989. CODEN FECOE5. ISSN 0269-8463.

Leibold:1989:REE

[234] M. A. Leibold. Resource edibility and the effects of predators and productivity

on the outcome of trophic interactions. *American Naturalist*, 134:922–949, 1989. CODEN AMNTA4. ISSN 0003-0147.

Longtin:1989:ITF

[235] A. Longtin and J. G. Milton. Insight into the transfer function, gain and oscillation onset for the pupil light reflex using delay-differential equations. *Biological Cybernetics*, 61:51–58, 1989. CODEN BICYAF. ISSN 0340-1200.

Longtin:1989:MAO

[236] A. Longtin and J. G. Milton. Modelling autonomous oscillations in the human pupil light reflex using nonlinear delay-differential equations. *Bulletin of Mathematical Biology*, 51:605–624, 1989. CODEN BMTBAP. ISSN 0092-8240.

Milton:1989:CDB

[237] J. G. Milton, A. Longtin, A. Beuter, M. C. Mackey, and L. Glass. Complex dynamics and bifurcations in neurology. *Journal of Theoretical Biology*, 138:129–147, 1989. CODEN JTBIAP. ISSN 0022-5193.

Monk:1989:CAO

[238] P. B. Monk and H. G. Othmer. Cyclic AMP oscillations in suspensions of *Dictyostelium discoideum*. *Philosophical transactions of the Royal Society of London*, 323(1215):185–224, 1989. CODEN PTRSAV. ISSN 0370-2316.

Murray:1989:MB

[239] J. D. Murray. *Mathematical Biology*, volume 19 of *Biomathematics*. Springer, New York, 1989. ISBN 0-387-19460-6 (New York), 3-540-19460-6 (Berlin). xiv + 767 pp. LCCN QH323.5 .M881 1989.

Nisbet:1989:SPM

[240] R. M. Nisbet, W. S. C. Gurney, W. W. Murdoch, and E. McCauley. Structured population models: A tool for linking effects at individual and population level. *Biological Journal of the Linnean Society*, 37:79–99, 1989. CODEN BJLSBG. ISSN 0024-4066.

Pate:1989:MCA

[241] E. Pate and R. Cooke. A model of crossbridge action: the effects of ATP, ADP, and pi. *Journal of Muscle Research Cell Motility*, 10:181–196, 1989. CODEN JMRMD3. ISSN 0142-4319.

Pease:1989:MPG

[242] C. M. Pease, R. Lande, and J. J. Bull. A model of population growth, dispersal, and evolution in a changing environment. *Ecology*, 70:1657–1664, 1989. CODEN ECOLAR. ISSN 0012-9658.

Peskin:1989:FLV

[243] C. S. Peskin. Fiber-architecture of the left ventricular wall: an asymptotic analysis. *Communications on Pure and Applied Mathematics (New York)*, 42(1):79–113, January 1989. CODEN CPAMAT, CPMAMV. ISSN 0010-3640 (print), 1097-0312 (electronic).

Phillipi:1989:HOE

[244] T. Phillipi and J. Seger. Hedging one's evolutionary bets, revisited. *Trends in Ecology and Evolution*, 4:41–44, 1989. CODEN TREEEQ. ISSN 0169-5347.

Rooney:1989:CCC

[245] Thomas A. Rooney, Ellen J. Sass, and Andrew P. Thomas. Characterization of cytosolic calcium oscillations induced

by phenylephrine and vasopressin in single fura-2-loaded hepatocytes. *Journal of biological chemistry*, 264(29): 17131–17141, October 1989. CODEN JBCHA3. ISSN 0021-9258.

Stasio:1989:SBF

[246] B. T. De Stasio. The seed bank of a freshwater crustacean: copepodology for the plant ecologist. *Ecology*, 70:1377–1389, 1989. CODEN ECOLAR. ISSN 0012-9658.

Taylor:1989:ESO

[247] P. B. Taylor. Evolutionary stability in one-parameter models under weak selection. *Theoretical Population Biology*, 36:125–143, 1989. CODEN TLPBAQ. ISSN 0040-5809.

Zauderer:1989:PDE

[248] Erich Zauderer. *Partial differential equations of applied mathematics*. John Wiley and Sons, New York, second edition, 1989. ISBN 0-471-61298-7. xiii + 891 pp. LCCN QA377 .Z38 1988.

Acheson:1990:EFD

[249] D. J. Acheson. *Elementary Fluid Dynamics*. Oxford applied mathematics and computing science series. Oxford University Press, 1990. ISBN 0-19-859660-X (case), 0-19-859679-0 (paperback). ix + 397 pp. LCCN TA357.A276 1990. US$67.50 (case), US$22.50 (paperback).

Alexander:1990:RSF

[250] J. C. Alexander, E. J. Doedel, and H. G. Othmer. On the resonance structure in a forced excitable system. *SIAM Journal on Applied Mathematics*, 50(5):1373–1418, October 1990. CODEN SMJMAP. ISSN 0036-1399 (print), 1095-712X (electronic).

Amann:1990:ODE

[251] Herbert Amann. *Ordinary Differential Equations: An introduction to nonlinear analysis*. de Gruyter, Berlin, 1990. ISBN 0-89925-552-3, 3-11-011515-8. xii + 458 pp. LCCN QA372 .A4313 1990. US$96.00. Translated from the German by Gerhard Metzen.

Arrowsmith:1990:IDS

[252] D. K. Arrowsmith and C. M. Place. *An Introduction to Dynamical Systems*. Cambridge University Press, 1990. ISBN 0-521-31650-2 (paperback), 0-521-30362-1 (hardcover). 423 pp. LCCN QA614.8 .A77 1990.

Berridge:1990:ICM

[253] M. J. Berridge. Inositol 1,4,5-trisphosphate-induced calcium mobilization is localized in *Xenopus* oocytes. *Proceedings of the Royal Society of London. Series B. Biological sciences*, 238: 235–343, 1990. CODEN PRLBA4. ISSN 0962-8452 (print), 1471-2954 (electronic).

Bressloff:1990:NDB

[254] P. C. Bressloff and J. Stark. Neuronal dynamics based on discontinuous circle maps. *Physics Letters A*, 150:187–195, 1990. CODEN PYLAAG. ISSN 0375-9601 (print), 1873-2429 (electronic).

DeLisle:1990:EIT

[255] S. DeLisle, K. H. Krause, G. Denning, B. V. L. Potter, and M. J. Welsh. Effect of inositol trisphosphate and calcium on oscillating elevations of intracel-

lular calcium in *Xenopus* oocytes. *Journal of biological chemistry*, 265:11726–11730, 1990. CODEN JBCHA3. ISSN 0021-9258.

Frank:1990:EVE

[256] S. A. Frank and M. Slatkin. Evolution in a variable environment. *American Naturalist*, 136:244–260, 1990. CODEN AMNTA4. ISSN 0003-0147.

Gilmour:1990:PRC

[257] R. F. Gilmour. Phase resetting of circus movement reentry in cardiac tissue. In Zipes and Jalife [532], pages 396–402. ISBN 0-7216-1408-6. LCCN WG330 C38 1990.

Goldbeter:1990:MMS

[258] A. Goldbeter, G. Dupont, and M. J. Berridge. Minimal model for signal-induced Ca oscillations and for their frequency encoding through protein phosphorylation. *Proceedings of the National Academy of Sciences of the United States of America*, 87:1461–1465, 1990. CODEN PNASA6. ISSN 0027-8424 (print), 1091-6490 (electronic).

Gurney:1990:PED

[259] W. S. C. Gurney, E. McCauley, R. M. Nisbet, and W. W. Murdoch. The physiological ecology of *Daphnia*: A dynamic model of growth and reproduction. *Ecology*, 71(2):716–732, April 1990. CODEN ECOLAR. ISSN 0012-9658.

Hairston:1990:FSR

[260] N. G. Hairston, Jr. and T. A. Dillon. Fluctuating selection and response in a population of freshwater copepods. *Evolution*, 44:1796–1805, 1990. CODEN EVOLAO. ISSN 0014-3820.

Harada:1990:MCA

[261] Y. Harada, T. Sakurada, T. Aoki, D. D. Thomas, and T. Yanagida. Mechanochemical coupling in actomyosin energy transduction studies in an in vitro movement assay. *Journal of Molecular Biology*, 216:49–68, 1990. CODEN JMOBAK. ISSN 0022-2836.

Heiden:1990:MOB

[262] U. an der Heiden and K. Reichard. Multitude of oscillatory behavior in a nonlinear second order differential-difference equation. *Zeitschrift für Angewandte Mathematik und Mechanik*, 70:621–624, 1990. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic).

Heiden:1990:OMN

[263] U. an der Heiden, A. Longtin, M. C. Mackey, J. G. Milton, and R. Scholl. Oscillatory modes in a nonlinear second-order differential equation with delay. *Journal of Dynamics and Differential Equations*, 2(4):423–449, October 1990. CODEN JDDEEH. ISSN 1040-7294.

Kleinfeld:1990:CCI

[264] D. Kleinfeld, F. Raccuia-Behling, and H. J. Chiel. Circuits constructed from identified *Aplysia* neurons exhibit multiple patterns of persistent activity. *Biophysical Journal*, 57(4):697–715, 1990. CODEN BIOJAU. ISSN 0006-3495.

Krassowska:1990:PDT

[265] W. Krassowska, D. W. Frazier, T. C. Pilkington, and R. E. Ideker. Potential distribution in three-dimensional periodic myocardium: Part II. application to extracellular stimulation. *IEEE Transactions on Biomedical Engineer-*

ing, BME-37(3):267–284, March 1990. CODEN IEBEAX. ISSN 0018-9294.

Longtin:1990:NCB

[266] A. Longtin, J. G. Milton, J. E. Bos, and M. C. Mackey. Noise and critical behavior of the pupil light reflex at oscillation onset. *Physical Review A*, 41:6992–7005, 1990. CODEN PLRAAN. ISSN 1050-2947 (print), 1094-1622, 1538-4446, 1538-4519.

McCauley:1990:GRM

[267] E. McCauley, W. W. Murdoch, and R. M. Nisbet. Growth, reproduction, and mortality of *Daphnia pulex*: life at low food. *Functional Ecology*, 4:505–514, 1990. CODEN FECOE5. ISSN 0269-8463.

McCauley:1990:PDE

[268] E. McCauley and W. W. Murdoch. Predator-prey dynamics in environments rich and poor in nutrients. *Nature*, 343(6257):455–457, February 1, 1990. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Milton:1990:CDN

[269] J. G. Milton, U. an der Heiden, A. Longtin, and M. C. Mackey. Complex dynamics and noise in simple neural networks with delayed mixed feedback. *Biomedica Biochimica Acta*, 49: 697–707, 1990. CODEN BBIADT. ISSN 0232-766X.

Milton:1990:EPC

[270] John G. Milton and Andre Longtin. Evaluation of pupil constriction and dilation from cycling measurements. *Vision Research (Oxford)*, 30(4):515–526, 1990. CODEN VISRAM. ISSN 0042-6989.

Nurse:1990:UCM

[271] P. Nurse. Universal control mechanism regulating onset of M-phase. *Nature*, 344:503–508, 1990. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Ott:1990:CC

[272] E. Ott, C. Grebogi, and J. A. Yorke. Controlling chaos. *Physical Review Letters*, 64:1196–1199, 1990. CODEN PRLTAO. ISSN 0031-9007 (print), 1079-7114 (electronic), 1092-0145.

Pedley:1990:NCM

[273] T. J. Pedley and J. O. Kessler. A new continuum model for suspensions of gyrotactic micro-organisms. *Journal of Fluid Mechanics*, 212:155–182, March 1990. CODEN JFLSA7. ISSN 0022-1120.

Quan:1990:UBR

[274] W. Quan and Y. Rudy. Unidirectional block and reentry of cardiac excitation: A model study. *Circulation Research*, 66(2):367–382, February 1990. CODEN CIRUAL. ISSN 0009-7330.

Sepulveda:1990:FEA

[275] N. G. Sepulveda, J. P. Wikswo, Jr., and D. S. Echt. Finite element analysis of cardiac defibrillation current distributions. *IEEE Transactions on Biomedical Engineering*, BME-37(4):354–365, April 1990. CODEN IEBEAX. ISSN 0018-9294.

Solomon:1990:CAP

[276] M. J. Solomon, M. Glotzer, T. H. Lee, M. Philippe, and M. W. Kirschner. Cyclin activation of $p34^{cdc2}$. *Cell*, 63:

1013–1024, 1990. CODEN CELLB5. ISSN 0092-8674.

Tett:1990:LLS

[277] P. Tett. Chapter 4: The photic zone. In P. J. Henning, A. K. Campbell, M. Whitfield, and L. Maddock, editors, *Light and Life in the Sea*. Cambridge University Press, New York, NY, 1990.

Tuljapurkar:1990:PDV

[278] Shripad Tuljapurkar. *Population Dynamics in Variable Environments*, volume 85 of *Lecture Notes in Biomathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1990. ISBN 0-387-52482-7. 154 pp. LCCN HB849.51 .T85 1990.

Uyeda:1990:MSS

[279] T. Q. P. Uyeda, S. J. Kron, E. M. McNalley, K. R. Niebling, C. Toyoshima, and J. A. Spudich. The myosin step size: estimation from slow sliding movement of actin over low densities of heavy meromyosin. *Journal of Molecular Biology*, 214:699–710, 1990. CODEN JMOBAK. ISSN 0022-2836.

Volpe:1990:RIC

[280] P. Volpe, B. H. Alderson-Lang, and G. A. Nickols. Regulation of inositol 1,4,5-trisphosphate-induced Ca^{2+} release. I. effect of Mg^{2+}. *American Journal of Physiology*, 258(6):C1077–C1085, June 1990. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic).

Wilder:1990:VNS

[281] B. J. Wilder. Vagus nerve stimulation for the control of epilepsy. *Epilepsia*, 1990. CODEN EPILAK. ISSN 0013-9580. Supplement 2.

Zeng:1990:CRR

[282] W. Zeng, J. Morissette, R. Brochu, L. Glass, and A. Shrier. Complex rhythms resulting from overdrive suppression in electrically stimulated heart cell aggregates. *Pacing and Clinical Electrophysiology: PACE*, 13(12):1678–1685, December 1990. ISSN 0147-8389.

Zeng:1990:TCP

[283] W. Zeng, M. Courtemanche, L. Sehn, A. Shrier, and L. Glass. Theoretical computation of phase locking in embryonic atrial heart cell aggregates. *Journal of Theoretical Biology*, 145:225–244, 1990. CODEN JTBIAP. ISSN 0022-5193.

Bezprozvanny:1991:BCC

[284] I. Bezprozvanny, J. Watras, and B. E. Ehrlich. Bell-shaped calcium-response curves of Ins(1,4,5)P_3- and calcium-gated channels from endoplasmic recticulum of cerebellum. *Nature*, 351: 751–754, 1991. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Bradshaw:1991:CLG

[285] A. D. Bradshaw. The Croonian Lecture 1991: Genostasis and the limits to evolution. *Philosophical Transactions of the Royal Society of London Series B, Biological sciences*, 333:289–305, 1991.

Cobbold:1991:HCO

[286] P. H. Cobbold, A. Sanchez-Bueno, and C. J. Dixon. The hepatocyte calcium oscillator. *Cell calcium*, 12:87–95, 1991. CODEN CECADV. ISSN 0143-4160.

Delisle:1991:FDC

[287] S. Delisle. The four dimensions of calcium signalling in *Xenopus* oocytes. *Cell calcium*, 12:217–227, 1991. CODEN CECADV. ISSN 0143-4160.

Dillon:1991:ORR

[288] S. M. Dillon. Optical recordings in the rabbit heart show that defibrillation strength shocks prolong the duration of depolarization and the refractory period. *Circulation Research*, 69:842–856, 1991. CODEN CIRUAL. ISSN 0009-7330.

Dupont:1991:SOP

[289] G. Dupont, M. J. Berridge, and A. Goldbeter. Signal-induced Ca oscillations: Properties of a model based on Ca-induced Ca release. *Cell calcium*, 12: 73–85, 1991. CODEN CECADV. ISSN 0143-4160.

Finch:1991:CCI

[290] E. A. Finch, T. J. Turner, and S. M. Goldin. Calcium as a coagonist of inositol 1,4,5-trisphosphate-induced calcium release. *Science*, 252:443–446, 1991. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Gatto:1991:SRM

[291] M. Gatto. Some remarks on models of plankton densities in lakes. *American Naturalist*, 137:264–267, 1991. CODEN AMNTA4. ISSN 0003-0147.

Gillespie:1991:CME

[292] J. H. Gillespie. *The Causes of Molecular Evolution*. Oxford University Press, Oxford, UK, 1991. ISBN 0-19-506883-1, 0-19-509271-6 (paperback). xiv + 336 pp. LCCN QH455 .G56 1991.

Gilpin:1991:MDE

[293] M. Gilpin and I. Hanski, editors. *Metapopulation Dynamics: Empirical and Theoretical Investigations*, volume 42 of *Biological Journal of the Linnean Society*. Academic Press, New York, NY, 1991. ISBN 0-12-284120-4. 336 pp. LCCN ????

Hale:1991:DB

[294] Jack K. Hale and Huseyin Kocak. *Dynamics and Bifurcations*. Springer-Verlag, New York, 1991. ISBN 0-387-97141-6, 3-540-97141-6. xiv + 568 pp. LCCN QA372 .H183 1991.

Hanski:1991:SMD

[295] I. Hanski. Single-species metapopulation dynamics: Concepts, models, and observations. In Gilpin and Hanski [293], pages 89–103. ISBN 0-12-284120-4. LCCN ????

Harootunian:1991:GCO

[296] A. T. Harootunian, J. P. Y. Kao, S. Paranjape, and R. Y. Tsien. Generation of calcium oscillations in fibroblasts by positive feedback between calcium and IP3. *Science*, 251:75–78, 1991. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Higuchi:1991:SDB

[297] H. Higuchi and Y. E. Goldman. Sliding distance between actin and myosin filaments per ATP molecule hydrolysed in skinned muscle fibres. *Nature*, 352 (6333):352–354, July 25, 1991. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Hudson:1991:GGC

[298] R. R. Hudson. Gene genealogies and the coalescent process. *Oxford Surveys in Evolutionary Biology*, 7:1–44, 1991. CODEN OSEBE3. ISSN 0265-072X.

Lechleiter:1991:SCW

[299] J. Lechleiter, S. Girard, E. Peralta, and D. Clapham. Spiral calcium wave propagation and annihilation in xenopus *laevis* oocytes. *Science*, 252:123–126, 1991. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Ludwig:1991:ESP

[300] D. Ludwig and S. A. Levin. Evolutionary stability of plant communities and the maintenance of multiple dispersal types. *Theoretical Population Biology*, 40:285–307, 1991. CODEN TLPBAQ. ISSN 0040-5809.

Luo:1991:MVC

[301] C-H. Luo and Y. Rudy. A model of the ventricular cardiac action potential: Depolarization, repolarization, and their interaction. *Circulation Research*, 68: 1501–1526, 1991. CODEN CIRUAL. ISSN 0009-7330.

Malcolm:1991:MPB

[302] I. Malcolm. Motor proteins: Biomechanics goes quantum. *Nature*, 352(6333): 284–286, July 25, 1991. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Metz:1991:EFD

[303] J. A. J. Metz and O. Diekmann. Exact finite dimensional representations of models for physiologically structured populations. I: The abstract foundations of linear chain trickery. In Goldstein et al. [534], pages 269–289. ISBN 0-8247-8571-1. LCCN QA370 .D56 1991.

Meyer:1991:CS

[304] Tobias Meyer and Lubert Stryer. Calcium spiking. *Annual review of biophysics and biophysical chemistry*, 20: 153–174, 1991. CODEN ARBCEY.

Nisbet:1991:PDE

[305] R. M. Nisbet, E. McCauley, A. M. de Roos, W. W. Murdoch, and W. S. C. Gurney. Population dynamics and element recycling in an aquatic plant-herbivore system. *Theoretical Population Biology*, 40(2):125–147, October 1991. CODEN TLPBAQ. ISSN 0040-5809.

Nuccitelli:1991:HDS

[306] R. Nuccitelli. How do sperm activate eggs? *Current topics in developmental biology*, 25:1–16, 1991. CODEN CTDBA5. ISSN 0070-2153.

Othmer:1991:DFE

[307] H. G. Othmer. The dynamics of forced excitable systems. In Holden et al. [536], pages 213–232. ISBN 0-306-43800-3. LCCN QA927 .N27 1989.

Perko:1991:DED

[308] L. Perko. *Differential Equations and Dynamical Systems*, volume 7 of *Texts in applied mathematics*. Springer, New York, 1991. ISBN 0-387-97443-1 (New York), 3-540-97443-1 (Berlin). xii + 403 pp. LCCN QA372 .P47 1991.

Renshaw:1991:MBP

[309] E. Renshaw. *Modelling Biological Populations in Space and Time*. Cambridge University Press, Cambridge, UK, 1991.

ISBN 0-521-30388-5 (hardback), 0-521-44855-7 (paperback). xvii + 403 pp. LCCN QH352 .R46 1991.

Rooney:1991:OCC

[310] T. A. Rooney, D. C. Renard, E. J. Sass, and A. P. Thomas. Oscillatory cytosolic calcium waves independent of stimulated inositol 1,4,5-trisphosphate formation in hepatocytes. *Journal of biological chemistry*, 266(19):12272–12282, 1991. CODEN JBCHA3. ISSN 0021-9258.

Somogyi:1991:HCO

[311] R. Somogyi and J. W. Stucki. Hormone-induced calcium oscillations in liver cells can be explained by a simple one pool model. *Journal of biological chemistry*, 266(17):11068–11077, 1991. CODEN JBCHA3. ISSN 0021-9258.

Takada:1991:DAE

[312] T. Takada and J. Kigami. The dynamical attainability of ESS in evolutionary games. *Journal of Mathematical Biology*, 29:513–529, 1991. CODEN JMBLAJ. ISSN 0303-6812.

Taylor:1991:KSA

[313] Edwin W. Taylor. Kinetic studies on the association and dissociation of myosin subfragment 1 and actin. *Journal of biological chemistry*, 266(1):294–302, January 5, 1991. CODEN JBCHA3. ISSN 0021-9258.

Thomas:1991:STO

[314] A. P. Thomas, D. C. Renard, and T. A. Rooney. Spatial and temporal organization of calcium signalling in hepatocytes. *Cell calcium*, 12:111–126, 1991. CODEN CECADV. ISSN 0143-4160.

Tuljapurkar:1991:PDV

[315] S. Tuljapurkar. *Population Dynamics in Variable Environments*, volume 85 of *Lecture Notes in Biomathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1991. ISBN 0-387-52482-7. 154 pp. LCCN HB849.51 .T85 1990.

Urabe:1991:EFC

[316] J. Urabe and Y. Watanabe. Effect of food concentration on the assimilation and production efficiencies of *Daphnia galeata*. *Functional Ecology*, 5:635–641, 1991. CODEN FECOE5. ISSN 0269-8463.

Watras:1991:ICC

[317] J. Watras, I. Bezprozvanny, and B. E. Ehrlich. Inositol 1,4,5-trisphosphate-gated channels in cerebellum: Presence of multiple conductance states. *Journal of Neuroscience*, 11(10):3239–3245, October 1991. CODEN JNRSDS. ISSN 0270-6474.

Yarom:1991:RHS

[318] Y. Yarom. Rhythmogenesis in a hybrid system interconnecting an olivary neuron to an analog network of coupled oscillators. *Neuroscience*, 44(2):263–275, 1991. CODEN NRSCDN. ISSN 0306-4522.

Zeng:1991:ERD

[319] W. Zeng, L. Glass, and A. Shrier. Evolution of rhythms during periodic stimulation of embryonic chick heart cell aggregates. *Circulation Research*, 69(4):1022–1033, October 1991. CODEN CIRUAL. ISSN 0009-7330.

Aida:1992:OML

[320] T. Aida and P. Davis. Oscillation modes of laser diode pumped hybrid bistable system with large delay and application to dynamic memory. *IEEE Journal of Quantum Electronics*, 28(3):686–699, March 1992. CODEN IEJQA7. ISSN 0018-9197.

Brown:1992:EHE

[321] J. S. Brown and N. B. Pavlovic. Evolution in heterogeneous environments: Effect of migration on habitat specialization. *Evolutionary Ecology*, 6:360–382, 1992. CODEN EVECEJ. ISSN 0269-7653.

Garfinkel:1992:CCC

[322] A. Garfinkel, M. Spano, W. L. Ditto, and J. Weiss. Controlling cardiac chaos. *Science*, 257(5074):1230–1235, August 28, 1992. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Girard:1992:TMC

[323] S. Girard, A. Luckhoff, J. Lechleiter, J. Sneyd, and D. Clapham. Two-dimensional model of calcium waves reproduces the patterns observed *Xenopus* oocytes. *Biophysical Journal*, 61: 509–517, 1992. CODEN BIOJAU. ISSN 0006-3495.

Glazier:1992:EAR

[324] D. S. Glazier and P. Calow. Energy allocation rules in *Daphnia magna* — clonal and age differences in the effects of food limitation. *Oecologia*, 90(4):540–549, July 1992. CODEN OECOBX. ISSN 0029-8549.

Heide-Jorgensen:1992:ESD

[325] M. P. Heide-Jorgensen and T. Harkonen. Epizootiology of the seal disease in the eastern North Sea. *Journal of Applied Ecology*, 29:99–107, 1992. CODEN JAPEAI. ISSN 0021-8901.

Holt:1992:AAH

[326] R. D. Holt and M. S. Gaines. Analysis of adaptation in heterogeneous landscapes: Implications for the evolution of fundamental niches. *Evolutionary Ecology*, 7: 433–447, 1992. CODEN EVECEJ. ISSN 0269-7653.

Hudson:1992:HWG

[327] R. R. Hudson. The how and why of generating gene genealogies. In Takahata and Clark [538], pages 23–36. ISBN 4-7622-6718-X, 0-87893-825-7. LCCN QH352 .M43 1993.

Keizer:1992:TRA

[328] J. Keizer and G. W. De Young. Two roles for Ca in agonist stimulated Ca oscillations. *Biophysical Journal*, 61:649–660, 1992. CODEN BIOJAU. ISSN 0006-3495.

Lechleiter:1992:MMI

[329] J. Lechleiter and D. Clapham. Molecular mechanisms of intracellular calcium excitability in *X. laevis* oocytes. *Cell*, 69: 283–294, 1992. CODEN CELLB5. ISSN 0092-8674.

McPeek:1992:EDS

[330] M. A. McPeek and R. D. Holt. The evolution of dispersal in spatially and temporally varying environments. *American Naturalist*, 140:1010–1027, 1992. CODEN AMNTA4. ISSN 0003-0147.

Miyazaki:1992:BCW

[331] S. Miyazaki, M. Yuzaki, K. Nakada, H. Shirakawa, S. Nakanishi, S. Nakade, and K. Mikoshiba. Block of Ca^{2+} wave

and Ca^{2+} oscillation by antibody to the inositol 1,4,5-trisphosphate receptor in fertilized hamster eggs. *Science*, 257:251–255, 1992. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Murdoch:1992:IMC

[332] W. W. Murdoch, E. McCauley, R. M. Nisbet, W. S. C. Gurney, and A. M. de Roos. Individual-based models: Combining testability and generality. In DeAngelis and Gross [537], pages 18–35. ISBN 0-412-03161-2 (hardcover), 0-412-03171-X (paperback). LCCN QH352 .I53 1992. US$65.00 (hardcover), US$29.00 (paperback).

Nagylaki:1992:ITP

[333] T. Nagylaki. *Introduction to Theoretical Population Genetics*, volume 21 of *Biomathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1992. ISBN 3-540-53344-3 (Berlin), 0-387-53344-3 (New York). xi + 369 pp. LCCN QH455 .N32 1992.

Pedley:1992:HPS

[334] T. J. Pedley and J. O. Kessler. Hydrodynamic phenomena in suspensions of swimming micro-organisms. *Annual Review of Fluid Mechanics*, 24:313–358, 1992. CODEN ARVFA3. ISSN 0066-4189.

Peskin:1992:CFD

[335] C. S. Peskin and D. M. McQueen. Cardiac fluid dynamics. *CRC critical reviews in biomedical engineering*, 20(5/6):451–459, 1992. CODEN CRBEDR. ISSN 0278-940X.

Roff:1992:ELH

[336] Derek A. Roff. *The Evolution of Life Histories: Theory and Analysis*. Chapman and Hall, Ltd., London, UK, 1992. ISBN 0-412-02391-1 (paper), 0-412-02381-4 (cloth). xii + 535 pp. LCCN QH323.5 .R62 1992.

Sharp:1992:AES

[337] A. A. Sharp, L. F. Abbott, and E. Marder. Artificial electrical synapses in oscillatory networks. *Journal of Neurophysiology*, 67(6):1691–1694, June 1992. CODEN JONEA4. ISSN 0022-3077.

Stearns:1992:ELH

[338] Stephen C. Stearns. *The Evolution of Life Histories*. Oxford University Press, Oxford, UK, 1992. ISBN 0-19-857741-9. xii + 249 pp. LCCN QH371 .S72 1992.

Tang:1992:TPG

[339] A. S. L. Tang, P. D. Wolf, Y. Afework, W. M. Smith, and R. E. Ideker. Three-dimensional potential gradient fields generated by intracardiac catheter and cutaneous patch electrodes. *Circulation*, 85(5):1857–1864, May 1992. CODEN CIRCAZ. ISSN 0009-7322.

Wharton:1992:CPP

[340] J. M. Wharton, P. D. Wolf, W. M. Smith, P-S. Chen, D. W. Frazier, S. Yabe, N. Danieley, and R. E. Ideker. Cardiac potential and potential gradient fields generated by single, combined, and sequential shocks during ventricular defibrillation. *Circulation*, 85:1510–1523, 1992. CODEN CIRCAZ. ISSN 0009-7322.

Young:1992:SIM

[341] G. De Young and J. Keizer. A single-pool inositol 1,4,5-trisphophate-receptor-based model for agonist-stimulated oscillations in Ca^{+2} concentration. *Proceedings of the National Academy of Sciences of the United States of America*, 89:9895–9899, 1992. CODEN PNASA6. ISSN 0027-8424 (print), 1091-6490 (electronic).

Zeng:1992:TPR

[342] W. Zeng, L. Glass, and A. Shrier. The topology of phase response curves induced by single and paired stimuli. *Journal of Biological Rhythms*, 7(2):89–104, Summer 1992. CODEN JBRHEE. ISSN 0748-7304.

Bagshaw:1993:MC

[343] C. R. Bagshaw. *Muscle Contraction*. Chapman and Hall, Ltd., London, UK, second edition, 1993. ISBN 0-412-40370-6. x + 155 pp. LCCN QP321 .B26 1993.

Carpenter:1993:TCL

[344] S. R. Carpenter and J. F. Kitchell, editors. *The Trophic Cascade in Lakes*. Cambridge University Press, Cambridge, UK, 1993. ISBN 0-521-43145-X. xiv + 385 pp. LCCN QH541.5.L3 T76 1993.

Charnov:1993:LHI

[345] Eric L. Charnov. *Life History Invariants: Some explorations of symmetry in evolutionary ecology*. Oxford University Press, Oxford, UK, 1993. ISBN 0-19-854072-8 (hardback), 0-19-854071-X (paperback). xv + 167 pp. LCCN QH371 .C485 1993.

Courtemanche:1993:IPP

[346] M. Courtemanche, L. Glass, and J. Keener. Instabilities of a propagating pulse in a ring of excitable media. *Physical Review Letters*, 70(14):2182–2185, April 5, 1993. CODEN PRLTAO. ISSN 0031-9007 (print), 1079-7114 (electronic), 1092-0145.

Hale:1993:IFD

[347] J. K. Hale and S. M. V. Lunel. *Introduction to Functional Differential Equations*, volume 99 of *Applied mathematical sciences*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1993. ISBN 0-387-94076-6 (New York), 3-540-94076-6 (Berlin). x + 447 pp. LCCN QA372 .H35 1993.

Henriquez:1993:SEB

[348] C. S. Henriquez. Simulating the electrical behavior of cardiac tissue using the bidomain model. *CRC critical reviews in biomedical engineering*, 21:1–77, 1993. CODEN CRBEDR. ISSN 0278-940X.

Holloway:1993:AII

[349] S. L. Holloway, M. Glotzer, R. W. King, and A. W. Murray. Anaphase is initiated by proteolysis rather than by the inactivation of maturation-promoting factor. *Cell*, 73:1393–1402, 1993. CODEN CELLB5. ISSN 0092-8674.

Josephson:1993:REV

[350] M. E. Josephson, D. Callans, J. M. Almendral, B. G. Hook, and R. B. Kleiman. Resetting and entrainment of ventricular tachycardia associated with infarction: Clinical and experimental studies. In Josephson and Wellens [540], pages 505–536. ISBN 0-87993-549-9. LCCN WG 330 T117-3 1993.

Knisley:1993:OMT

[351] S. B. Knisley, T. F. Blitchington, B. C. Hill, A. O. Grant, W. M. Smith, T. C. Pilkington, and R. E. Ideker. Optical measurements of transmembrane potential changes during electric field stimulation of ventricular cells. *Circulation Research*, 72(2):255–270, February 1993. CODEN CIRUAL. ISSN 0009-7330.

Krebs:1993:BEE

[352] J. R. Krebs and N. B. Davies. *Behavioral Ecology: An Evolutionary Approach*. Blackwell Scientific Publications, Oxford, UK, third edition, 1993. ISBN 0-632-02701-0 (hardback), 0-632-02702-9 (paperback). xi + 482 pp. LCCN QL751 .B345 1991.

Kretzschmar:1993:PMZ

[353] M. Kretzschmar, R. M. Nisbet, and E. McCauley. A predator-prey model for zooplankton grazing on competing algal populations. *Theoretical Population Biology*, 44(1):32–66, August 1993. CODEN TLPBAQ. ISSN 0040-5809.

Lenski:1993:ERE

[354] R. E. Lenski and A. F. Bennett. Evolutionary response of *Escherichia coli* to thermal stress. *American Naturalist*, 142:S47–S64, 1993. CODEN AMNTA4. ISSN 0003-0147.

Losson:1993:SMF

[355] J. Losson, M. C. Mackey, and A. Longtin. Solution multistability in first-order nonlinear differential delay equations. *Chaos (Woodbury, NY)*, 3: 167–176, 1993. CODEN CHAOEH. ISSN 1054-1500.

Lynch:1993:EER

[356] M. Lynch and R. Lande. Evolution and extinction in response to environmental change. In Kareiva et al. [541], pages 234–250. ISBN 0-87893-429-4, 0-87893-430-8 (paperback). LCCN QH546 .B55 1993. US$55.00, US$35.00 (paperback).

Murray:1993:CCI

[357] Andrew Murray and Tim Hunt. *The cell cycle: an introduction*. W. H. Freeman, New York, NY, USA, 1993. ISBN 0-7167-7044-X (hard), 0-7167-7046-6 (soft), 0-19-509529-4. xii + 251 pp. LCCN H605 .M95 1993.

Murray:1993:TM

[358] A. W. Murray. Turning on mitosis. *Current biology*, 3:291–293, 1993. CODEN CUBLE2. ISSN 0960-9822.

Neu:1993:HST

[359] J. C. Neu and W. Krassowska. Homogenization of syncytial tissues. *CRC critical reviews in biomedical engineering*, 21:137–199, 1993. CODEN CRBEDR. ISSN 0278-940X.

Novak:1993:NAC

[360] B. Novak and J. J. Tyson. Numerical analysis of a comprehensive model of M-phase control in *Xenopus* oocyte extracts and intact embryos. *Journal of Cell Science*, 106:1153–1168, 1993. CODEN JNCSAI. ISSN 0021-9533.

Othmer:1993:OWM

[361] H. G. Othmer and Y. Tang. Oscillations and waves in a model of ip-controlled calcium dynamics. In Othmer et al. [542], pages 277–313. ISBN 0-306-44661-8. LCCN QH491 .N38 1993.

Othmer:1993:TAB

[362] H. G. Othmer. Techniques and applications of bifurcation theory. Lecture Notes, University of Utah, 1993.

Pate:1993:DMS

[363] Edward Pate, Howard D. White, and Roger Cooke. Determination of the myosin step size from mechanical and kinetic data. *Proceedings of the National Academy of Sciences of the United States of America*, 90(6):2451–2455, March 15, 1993. CODEN PNASA6. ISSN 0027-8424 (print), 1091-6490 (electronic).

Pate:1993:UDN

[364] E. Pate, K. Franks-Skiba, H. D. White, and R. Cooke. The use of differing nucleotides to investigate cross-bridge kinetics. *Journal of biological chemistry*, 268(14):10046–10053, May 15, 1993. CODEN JBCHA3. ISSN 0021-9258.

Peskin:1993:CBD

[365] C. S. Peskin and D. M. McQueen. Computational biofluid dynamics. *Contemporary mathematics*, 141:161–186, 1993. ISSN 0271-4132 (print), 1098-3627 (electronic).

Ross:1993:SSM

[366] A. H. Ross, W. S. C. Gurney, M. R. Heath, S. J. Hay, and E. W. Henderson. A strategic simulation model of a fjord ecosystem. *Limnology and Oceanography*, 38(1):128–153, January 1993. CODEN LIOCAH. ISSN 0024-3590.

Sharp:1993:DCA

[367] Andrew A. Sharp, Michael B. O'Neil, L. F. Abbott, and Eve Marder. The dynamic clamp: artificial conductances in biological neurons. *Trends in Neurosciences (Regular ed.)*, 16(10):389–394, October 1993. CODEN TNSCDR. ISSN 0378-5912.

Sharp:1993:DCC

[368] A. A. Sharp, M. B. O'Neil, L. F. Abbott, and E. Marder. Dynamic clamp: Computer-generated conductances in real neurons. *Journal of Neurophysiology*, 69(3):992–995, March 1993. CODEN JONEA4. ISSN 0022-3077.

Starmer:1993:VEM

[369] C. F. Starmer, V. N. Biktahev, D. N. Romashko, M. R. Stepanov, O. N. Makarova, and V. I. Krinsky. Vulnerability in an excitable medium: analytical and numerical study of initiating unidirectional propagation. *Biophysical Journal*, 65(5):1775–1787, November 1993. CODEN BIOJAU. ISSN 0006-3495.

Templeton:1993:HGC

[370] A. R. Templeton. The "Eve" hypothesis: a genetic critique and reanalysis. *American Anthropologist*, 95:51–72, 1993. CODEN AMATA7. ISSN 0002-7294.

Trayanova:1993:BMP

[371] N. A. Trayanova and T. C. Pilkington. A bidomain model with periodic intracellular junctions. one-dimensional analysis. *IEEE Transactions on Biomedical Engineering*, 40:424–433, 1993. CODEN IEBEAX. ISSN 0018-9294.

Tuljapurkar:1993:EUV

[372] S. Tuljapurkar and C. Istock. Environmental uncertainty and variable diapause. *Theoretical Population Biology*, 43:251–280, 1993. CODEN TLPBAQ. ISSN 0040-5809.

White:1993:KBH

[373] H. D. White, B. Belknap, and W. Jiang. Kinetics of binding and hydrolysis of a series of nucleoside triphosphates by actomyosin-S1: relationship between solution rate constants and properties of muscle fibers. *Journal of biological chemistry*, 268(14):10039–10045, May 15, 1993. CODEN JBCHA3. ISSN 0021-9258.

Zhang:1993:CSM

[374] X. Zhang, J. A. Ashton-Miller, and C. S. Stohler. A closed-loop system for maintaining constant experimental muscle pain in man. *IEEE Transactions on Biomedical Engineering*, 40(4):344–352, April 1993. CODEN IEBEAX. ISSN 0018-9294.

Zhou:1993:EMV

[375] X. Zhou, P. Daubert, P. D. Wolf, W. M. Smith, and R. E. Ideker. Epicardial mapping of ventricular defibrillation with monophasic and biphasic shocks in dogs. *Circulation Research*, 72:145–160, 1993. CODEN CIRUAL. ISSN 0009-7330.

Zipser:1993:SNM

[376] D. Zipser, B. Kehoe, G. Littlewort, and J. Fuster. A spiking network model of short-term memory. *Journal of Neuroscience*, 13(8):3406–3420, August 1993. CODEN JNRSDS. ISSN 0270-6474.

Alberts:1994:MBC

[377] B. Alberts, D. Bray, J. Lewis, M. Raff, K. Roberts, and J. D. Watson. *Molecular Biology of the Cell*. Garland Publishing, Inc., New York, NY, USA, third edition, 1994. ISBN 0-8153-1619-4 (hardcover), 0-8153-1620-8 (paperback). xliii + 1294 + 67 pp. LCCN QH581.2 .M64 1994.

Altes:1994:EPP

[378] H. Korthals Altes. Effects of PDV on the population dynamics of seals. Master's thesis, Leiden University, Leiden, The Netherlands, 1994.

Amon:1994:CCC

[379] A. Amon, S. Irniger, and K. Nasmyth. Closing the cell cycle circle in yeast: G2 cyclin proteolysis initiated at mitosis persists until the activation of G1 cyclins in the next cycle. *Cell*, 77:1037–1050, 1994. CODEN CELLB5. ISSN 0092-8674.

Bezprozvanny:1994:IIC

[380] I. Bezprozvanny and B. Ehrlich. Inositol (1,4,5)-trisphosphate ($InsP_3$)-gated Ca channels from cerebellum: Conduction properties for divalent cations and regulation by intraluminal calcium. *Journal of General Physiology*, 104:821–856, 1994. CODEN JGPLAD. ISSN 0022-1295.

Chesson:1994:MCV

[381] P. L. Chesson. Multispecies competition in varying environments. *Theoretical Population Biology*, 45:227–276, 1994. CODEN TLPBAQ. ISSN 0040-5809.

Cooke:1994:MRM

[382] R. Cooke, H. D. White, and E. Pate. A model of the release of myosin heads from actin in rapidly contracting muscle. *Biophysical Journal*, 66(3):778–788, March 1994. CODEN BIOJAU. ISSN 0006-3495.

Ellner:1994:ROG

[383] S. Ellner and N. G. Hairston, Jr. Role of overlapping generations in maintaining

genetic variation in a fluctuating environment. *American Naturalist*, 143:403–417, 1994. CODEN AMNTA4. ISSN 0003-0147.

Finer:1994:SMM

[384] J. T. Finer, R. M. Simmons, and J. A. Spudich. Single myosin molecule mechanics: PicoNewton forces and nanometre steps. *Nature*, 368(6467): 113–119, March 10, 1994. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Freeman:1994:TEP

[385] S. A. Freeman, M. A. Wang, and J. C. Weaver. Theory of electroporation of planar bilayer membranes: Predictions of the aqueous area, change in capacitance, and pore-pore separation. *Biophysical Journal*, 67:42–56, 1994. CODEN BIOJAU. ISSN 0006-3495.

Glass:1994:PFL

[386] L. Glass and J. Sun. Periodic forcing of a limit cycle oscillator: Fixed points, arnold tongues, and the global organization of bifurcations. *Physical Review E (Statistical physics, plasmas, fluids, and related interdisciplinary topics)*, 50: 5077–5084, 1994. CODEN PLEEE8. ISSN 1539-3755 (print), 1550-2376 (electronic).

Griffiths:1994:AIP

[387] R. C. Griffiths and S. Tavaré. Ancestral inference in population genetics. *Statistical Science*, 9:307–319, 1994. CODEN STSCEP. ISSN 0883-4237 (print), 2168-8745 (electronic).

Griffiths:1994:STN

[388] R. C. Griffiths and S. Tavaré. Sampling theory for neutral alleles in a varying environment. *Philosophical Transactions of the Royal Society of London Series B, Biological sciences*, 344:403–410, 1994. CODEN PTRBAE. ISSN 0962-8436.

Kowtha:1994:IMN

[389] V. C. Kowtha, A. Kunysz, J. R. Clay, L. Glass, and A. Shrier. Ionic mechanisms and nonlinear dynamics of embryonic chick heart cell aggregates. *Progress in Biophysics and Molecular Biology*, 61: 255–281, 1994. CODEN PBIMAC. ISSN 0079-6107.

Krassowska:1994:EBC

[390] W. Krassowska and J. C. Neu. Effective boundary conditions for syncytial tissues. *IEEE Transactions on Biomedical Engineering*, 41:143–150, 1994. CODEN IEBEAX. ISSN 0018-9294.

Krassowska:1994:RSC

[391] W. Krassowska and J. C. Neu. Response of a single cell to an external electric field. *Biophysical Journal*, 66:1768–1776, 1994. CODEN BIOJAU. ISSN 0006-3495.

Middlebrooks:1994:PCS

[392] A. E. Middlebrooks, L. Xu, and D. M. Green. A panoramic code for sound location by cortical neurons. *Science*, 264 (5160):842–844, May 6, 1994. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Moreno:1994:RPT

[393] S. Moreno and P. Nurse. Regulation of progression through the G1 phase of the cell cycle by the $rum1^{+}$ gene. *Nature*, 367(6460):236–242, January 20, 1994. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Peskin:1994:MED

[394] C. S. Peskin and D. M. McQueen. Mechanical equilibrium determines the fractal fiber architecture of the aortic heart valve leaflets. *American Journal of Physiology*, 266(1):H319–H328, January 1994. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic).

Ross:1994:CSE

[395] A. H. Ross, W. S. C. Gurney, and M. R. Heath. A comparative study of the ecosystem dynamics of four fjords. *Limnology and Oceanography*, 39(2):318–343, March 1994. CODEN LIOCAH. ISSN 0024-3590.

Schiff:1994:CCB

[396] S. J. Schiff, K. Jerger, D. H. Duong, T. Chang, M. L. Spano, and W. L. Ditto. Controlling chaos in the brain. *Nature*, 370(6491):615–620, August 25, 1994. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Siegfried:1994:BCE

[397] J. Siegfried. Bilateral chronic electrostimulation of ventroposteriolateral pallidum: a new therapeutic approach for alleviating all parkinsonian symptoms. *Neurosurgery*, 35(6):1126–1129, 1994. ISSN 0148-396X.

Tang:1994:GMA

[398] Yuanhua Tang and Hans G. Othmer. A G-protein-based model of adaptation in *Dictyostelium discoideum*. *Mathematical Biosciences*, 120:25–76, 1994. CODEN MABIAR. ISSN 0025-5564.

Tang:1994:MCD

[399] Yuanhua Tang and Hans G. Othmer. A model of calcium dynamics in cardiac myocytes based on the kinetics of ryanodine-sensitive calcium channels. *Biophysical Journal*, 67:2223–2235, 1994. CODEN BIOJAU. ISSN 0006-3495.

Ayala:1995:AAT

[400] F. J. Ayala. Association affairs: The myth of Eve: Molecular biology and human origins. *Science*, 270:1930–1936, 1995. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Behbehani:1995:ACA

[401] K. Behbehani, F-C. Yen, J. R. Burk, E. A. Lucas, and J. R. Axe. Automatic control of airway pressure for treatment of obstructive sleep apnea. *IEEE Transactions on Biomedical Engineering*, 42(10):1007–1016, 1995. CODEN IEBEAX. ISSN 0018-9294.

Bulmer:1995:TEE

[402] Michael Bulmer. *Theoretical Evolutionary Ecology*. Sinauer Associates, Inc., Sunderland, MA, 1995. ISBN 0-87893-078-7 (paper), 0-87893-079-5 (cloth). xi + 352 pp. LCCN QH366.2 .B85 1994.

Burger:1995:EEC

[403] R. Burger and M. Lynch. Evolution and extinction in a changing environment: a quantitative-genetic analysis. *Evolution*, 49:151–163, 1995. CODEN EVOLAO. ISSN 0014-3820.

Burt:1995:PEF

[404] A. Burt. Perspective: The evolution of fitness. *Evolution*, 49:1–8, 1995. CODEN EVOLAO. ISSN 0014-3820.

Campbell:1995:CDM

[405] S. A. Campbell, J. Bélair, T. Ohira, and J. Milton. Complex dynamics and

multistability in a damped harmonic oscillator with delayed negative feedback. *Chaos (Woodbury, NY)*, 5:640–645, 1995. CODEN CHAOEH. ISSN 1054-1500.

Correa-Bordes:1995:POS

[406] J. Correa-Bordes and P. Nurse. $p25^{rum1}$ orders S-phase and mitosis by acting as an inhibitor of the $p34^{cdc2}$ mitotic kinase. *Cell*, 83:1001–1009, 1995. CODEN CELLB5. ISSN 0092-8674.

DiBenedetto:1995:PDE

[407] Emmanuele DiBenedetto. *Partial Differential Equations*. Birkhäuser Boston Inc., Cambridge, MA, USA, 1995. ISBN 0-8176-3708-7 (Boston), 3-7643-3708-7 (Basel). xiv + 416 pp. LCCN QA377 .D624 1995.

Diekmann:1995:FIP

[408] O. Diekmann, M. C. M. de Jong, A. A. de Koeijer, and P. Reijnders. The force of infection in populations of varying size: A modelling problem. *Journal of Biological Systems*, 3:519–529, 1995. CODEN JBSYE2. ISSN 0218-3390.

Donnelly:1995:CGS

[409] P. Donnelly and S. Tavaré. Coalescents and genealogical structure under neutrality. *Annual Review of Genetics*, 29: 401–421, 1995. CODEN ARVGB7. ISSN 0066-4197.

Dorit:1995:APA

[410] R. L. Dorit, H. Akashi, and W. Gilbert. Absence of polymorphism at the ZFY locus on the human Y chromosome. *Science*, 268:1183–1185, 1995. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Easterling:1995:ODS

[411] M. E. Easterling. Optimal dormancy strategies in structured population. Master's thesis, North Carolina State University, Raleigh, NC, 1995.

Ferster:1995:CNC

[412] D. Ferster and N. Spruston. Cracking the neuronal code. *Science*, 270(5237): 756–757, November 3, 1995. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Fromherz:1995:SJC

[413] Peter Fromherz and Alfred Stett. Silicon-neuron junction: Capacitive stimulation of an individual neuron on a silicon chip. *Physical Review Letters*, 75 (8):1670–1673, 1995. CODEN PRLTAO. ISSN 0031-9007 (print), 1079-7114 (electronic), 1092-0145.

Furutani:1995:BPC

[414] E. Furutani, M. Araki, T. Sakamoto, and S. Maetani. Blood pressure control during surgical operations. *IEEE Transactions on Biomedical Engineering*, 42 (10):999–1006, 1995. CODEN IEBEAX. ISSN 0018-9294.

Glass:1995:RAR

[415] L. Glass and M. E. Josephson. Resetting and annihilation of reentrant abnormally rapid heartbeat. *Physical Review Letters*, 75(10):2059–2063, 1995. CODEN PRLTAO. ISSN 0031-9007 (print), 1079-7114 (electronic), 1092-0145.

Gomulkiewicz:1995:WDE

[416] R. Gomulkiewicz and R. D. Holt. When does evolution by natural selection prevent extinction? *Evolution*, 49:201–207,

1995. CODEN EVOLAO. ISSN 0014-3820.

Grenfell:1995:EID

[417] B. T. Grenfell and A. Dobson, editors. *Ecology of Infectious Diseases in Natural Populations*. Cambridge University Press, Cambridge, UK, 1995. ISBN 0-521-46502-8. xii + 521 pp. LCCN QR100 .E32 1995.

Griffiths:1995:UGT

[418] R. C. Griffiths and S. Tavaré. Unrooted genealogical tree probabilities in the infinitely-many-sites model. *Mathematical Biosciences*, 127:77–98, 1995. CODEN MABIAR. ISSN 0025-5564.

Grover:1995:CHE

[419] J. P. Grover. Competition, herbivory, and enrichment-nutrient-based models for edible and inedible plants. *American Naturalist*, 145(5):746–774, May 1995. CODEN AMNTA4. ISSN 0003-0147.

Haccou:1995:OMS

[420] P. Haccou and Y. Iwasa. Optimal mixed strategies in stochastic environments. *Theoretical Population Biology*, 47:212–243, 1995. CODEN TLPBAQ. ISSN 0040-5809.

Hairston:1995:ASD

[421] N. G. Hairston, Jr., R. A. van Brunt, C. M. Kearns, and D. R. Engstrom. Age and survivorship of diapausing eggs in a sediment egg bank. *Ecology*, 76:1706–1711, 1995. CODEN ECOLAR. ISSN 0012-9658.

Hammer:1995:RCA

[422] M. F. Hammer. A recent common ancestry for human Y chromosomes. *Nature*, 378(6555):376–378, 1995. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Herwaarden:1995:SEM

[423] O. A. van Herwaarden and J. Grasman. Stochastic epidemics: Major outbreaks and the duration of the epidemic. *Journal of Mathematical Biology*, 33:581–601, 1995. CODEN JMBLAJ. ISSN 0303-6812.

Higuchi:1995:CTF

[424] H. Higuchi, T. Yanagida, and Y. E. Goldman. Compliance of thin filaments in skinned fibers of rabbit skeletal muscle. *Biophysical Journal*, 69(3):1000–1010, 1995. CODEN BIOJAU. ISSN 0006-3495.

Hillesdon:1995:DCG

[425] A. J. Hillesdon, T. J. Pedley, and J. O. Kessler. The development of concentration gradients in a suspension of chemotactic bacteria. *Bulletin of Mathematical Biology*, 57(2):299–344, 1995. CODEN BMTBAP. ISSN 0092-8240.

Iacono:1995:SGP

[426] R. P. Iacono. Stimulation of the globus pallidus in parkinson's disease. *British Journal of Neurosurgery*, 9:505–510, 1995. CODEN BJNEEL. ISSN 0268-8697.

Jobling:1995:FSY

[427] M. A. Jobling and C. Tyler-Smith. Fathers and sons: the Y chromosome and human evolution. *Trends in Genetics*, 11:449–456, 1995. CODEN TRGEE2. ISSN 0168-9525.

Kawecki:1995:DSP

[428] T. J. Kawecki. Demography of source-sink populations and the evolution of

ecological niches. *Evolutionary Ecology*, 7:155–174, 1995. CODEN EVECEJ. ISSN 0269-7653.

Kostov:1995:MLC

[429] A. Kostov, B. J. Andrews, D. B. Popovic, R. B. Stein, and W. W. Armstrong. Machine learning in control of functional electrical stimulation systems for locomotion. *IEEE Transactions on Biomedical Engineering*, 42(6):541–551, June 1995. CODEN IEBEAX. ISSN 0018-9294.

Krassowska:1995:EET

[430] W. Krassowska. Effects of electroporation on transmembrane potential induced by defibrillation shocks. *Pacing and Clinical Electrophysiology: PACE*, 18:1644–1660, 1995. ISSN 0147-8389.

Krassowska:1995:MME

[431] W. Krassowska. Macroscopic model of electroporating membrane. In IEEE [544], pages 253–254.

Kunysz:1995:OSS

[432] A. Kunysz, L. Glass, and A. Shrier. Overdrive suppression of spontaneously beating chick heart cell aggregates: Experiment and theory. *American Journal of Physiology*, 269:H1153–H1164, 1995. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic). (Heart Circ. Physiol. 38).

Kuznetsov:1995:EAB

[433] Y. A. Kuznetsov. *Elements of Applied Bifurcation Theory*. Springer-Verlag, 1995.

Lodish:1995:MCB

[434] Harvey F. Lodish, D. Baltimore, A. Berk, S. L. Zipursky, P. Matsudaira, and James E. Darnell. *Molecular Cell Biology*. W. H. Freeman, New York, NY, USA, third edition, 1995. ISBN 0-7167-2380-8. various pp. LCCN QH581.2 .D37 1995.

Lucas:1995:RJ

[435] G. Lucas. *Return of the Jedi*. Warner Books, New York, NY, USA, 1995.

Mainen:1995:RST

[436] Z. F. Mainen and T. J. Sejnowski. Reliablity of spike timing in neocortical neurons. *Science*, 268(5216):1503–1506, June 9, 1995. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Maniglia:1995:MIE

[437] A. J. Maniglia (ed.). Middle and inner ear electronic implantable devices for partial hearing loss. *The Otolaryngologic clinics of North America*, 28:1–223, 1995. CODEN OCNABW. ISSN 0030-6665.

McNamara:1995:DOF

[438] J. M. McNamara, J. N. Webb, and E. J. Collins. Dynamic optimization in fluctuating environments. *Proceedings of the Royal Society of London. Series B. Biological sciences*, 261:279–284, 1995. CODEN PRLBA4. ISSN 0962-8452 (print), 1471-2954 (electronic).

McNamara:1995:IFD

[439] J. M. McNamara. Implicit frequency dependence and kin selection in fluctuating environments. *Evolutionary Ecology*, 9: 185–203, 1995. CODEN EVECEJ. ISSN 0269-7653.

Mensour:1995:CCS

[440] B. Mensour and A. Longtin. Controlling chaos to store information in delay-differential equations. *Physics Letters A*, 205(1):18–24, 1995. CODEN PYLAAG. ISSN 0375-9601 (print), 1873-2429 (electronic).

Milton:1995:DFD

[441] J. Milton, S. A. Campbell, and J. Bélair. Dynamic feedback and the design of closed-loop drug delivery systems. *Journal of Biological Systems*, 3:711–718, 1995. CODEN JBSYE2.

Mitchell-Olds:1995:MBQ

[442] T. Mitchell-Olds. The molecular basis of quantitative genetic variation in natural populations. *Trends in Ecology and Evolution*, 10:324–328, 1995. CODEN TREEEQ. ISSN 0169-5347.

Mollison:1995:EMT

[443] D. Mollison, editor. *Epidemic Models: Their Structure and Relation to Data*. Cambridge University Press, Cambridge, UK, 1995. ISBN 0-521-47536-8. xvii + 424 pp. LCCN RA652.2.M3 E64 1995.

Molloy:1995:MFP

[444] J. E. Molloy, J. Kendrick-Jones, J. E. Burns, R. T. Tregear, and D. C. S. White. Movement and force produced by a single myosin head. *Nature*, 378 (6553):209–212, November 9, 1995. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Murray:1995:CUD

[445] A. W. Murray. Cyclin ubiquitination: the destructive end of mitosis. *Cell*, 81: 149–152, 1995. CODEN CELLB5. ISSN 0092-8674.

Novak:1995:QAM

[446] B. Novak and J. J. Tyson. Quantitative analysis of a molecular model of mitotic control in fission yeast. *Journal of Theoretical Biology*, 173:283–305, 1995. CODEN JTBIAP. ISSN 0022-5193.

Peskin:1995:GMC

[447] C. S. Peskin and D. M. McQueen. A general method for the computer simulation of biological systems interacting with fluids. In Ellington and Pedley [546], pages 265–276. ISBN 0-948601-50-7. LCCN QH301 .S74 no.49.

Rudy:1995:RIT

[448] Y. Rudy. Reentry: Insights from theoretical simulations in a fixed pathway. *Journal of Cardiovascular Electrophysiology*, 6(4):294–312, 1995. CODEN JCELE2. ISSN 1045-3873.

Sasaki:1995:ESP

[449] A. Sasaki and S. Ellner. The evolutionarily stable phenotype distribution in a random environment. *Evolution*, 49:336–350, 1995. CODEN EVOLAO. ISSN 0014-3820.

Sellers:1995:PPM

[450] James R. Sellers and Holly V. Goodson. *Protein Profile. Motor Proteins 2: Myosin*, volume 2(12) of *Protein profile*. Academic Press, New York, NY, 1995. ISSN 1070-3667. 1423 pp.

Smith:1995:TCD

[451] H. L. Smith and P. Waltman. *The Theory of the Chemostat: Dynamics of Microbial Competition*, volume 13 of *Cambridge Studies in Mathematical Biol-*

ogy. Cambridge University Press, Cambridge, UK, 1995. ISBN 0-521-47027-7. xvi + 313 pp. LCCN QR84.5 .S65 1995.

Sneyd:1995:MCO

[452] J. Sneyd, J. Keizer, and M. J. Sanderson. Mechanisms of calcium oscillations and waves: A quantitative analysis. *The FASEB journal: official publication of the Federation of American Societies for Experimental Biology*, 9:1463–1472, 1995. CODEN FAJOEC. ISSN 0892-6638.

Sobie:1995:BSI

[453] E. A. Sobie, M. G. Fishler, and L. Tung. Biphasic shocks induce more uniform repolarization than monophasic shocks in a cardiac cellular field excitation model. In IEEE [544], pages 257–258.

Tang:1995:FEF

[454] Yuanhua Tang and Hans G. Othmer. Frequency encoding in forced excitable systems with applications to calcium oscillations. *Proceedings of the National Academy of Sciences of the United States of America*, 92:7869–7873, 1995. CODEN PNASA6. ISSN 0027-8424 (print), 1091-6490 (electronic).

Trayanova:1995:VEE

[455] N. Trayanova and W. Krassowska. Virtual electrode effects in a bidomain model with electroporating membrane. In IEEE [544], pages 255–256.

Tyson:1995:CCC

[456] J. J. Tyson, B. Novak, K. C. Chen, and J. Val. Checkpoints in the cell cycle from a modeler's perspective. *Progress in Cell Cycle Research*, 1:1–8, 1995. ISSN 1087-2957.

Wallace:1995:MDV

[457] D. C. Wallace. Mitochondrial DNA variation in human evolution, degenerative disease, and aging. *American Journal of Human Genetics*, 57:201–223, 1995. CODEN AJHGAG. ISSN 0002-9297.

Whitfield:1995:SVH

[458] L. S. Whitfield, J. E. Sulston, and P. N. Goodfellow. Sequence variation of the human Y chromosome. *Nature*, 378 (6555):379–380, 1995. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

Widdows:1995:SGC

[459] J. Widdows, P. Donkin, M. D. Brinsley, S. V. Evans, P. N. Salkeld, A. Franklin, R. J. Law, and M. J. Waldock. Scope for growth and contaminant levels in north sea mussels *Mytilus edulis*. *Marine Ecology Progress Series*, 127(1–3):131–148, 1995. CODEN MESEDT. ISSN 0171-8630.

Wills:1995:WDE

[460] C. Wills. When did Eve live? an evolutionary detective story. *Evolution*, 49:593–607, 1995. CODEN EVOLAO. ISSN 0014-3820.

Windish:1995:OMM

[461] H. Windish, H. Ahammer, P. Schaffer, W. Müller, and D. Platzer. Optical multisite monitoring of cell excitation phenomena in isolated cardiomyocyte. *Pflugers Archiv: European Journal of Physiology*, 430(4):508–518, 1995. CODEN PFLABK. ISSN 0031-6768.

Zhou:1995:OTP

[462] X. Zhou, R. E. Ideker, T. F. Blitchington, W. M. Smith, and S. B. Knisley.

Optical transmembrane potential measurements during defibrillation-strength shocks in perfused rabbit hearts. *Circulation Research*, 77(3):593–602, 1995. CODEN CIRUAL. ISSN 0009-7330.

Zhou:1995:RTP

[463] X. Zhou, D. L. Rollins, W. M. Smith, and R. E. Ideker. Responses of the transmembrane potential of myocardial cells during a shock. *Journal of Cardiovascular Electrophysiology*, 6:252–263, 1995. CODEN JCELE2. ISSN 1045-3873.

Ball:1996:ETL

[464] F. Ball, D. Mollison, and G. Scalia-Tomba. Epidemics with two levels of mixing. Submitted., 1996.

Bayer:1996:OTB

[465] W. Bayer and U. an der Heiden. Oscillation types and bifurcations of a nonlinear second order differential-difference equation. *Journal of Dynamics and Differential Equations*, 1996. CODEN JDEEH. ISSN 1040-7294. In press.

Bees:1996:MBP

[466] M. A. Bees and N. A. Hill. Measurements of biconvection pattern wavelengths in suspension of *Chlamydomonas*. In preparation, 1996.

Bees:1996:WBP

[467] M. A. Bees and N. A. Hill. Wavelengths of biconvection pattern wavelengths in suspension of *Chlamydomonas*. In preparation, 1996.

Dallon:1996:DCM

[468] John. C. Dallon and Hans G. Othmer. A discrete cell model with adaptive signalling for aggregation of *Dictyostelium discoideum*. To appear in Phil. Trans. Roy. Soc. Lon., 1996.

DeBruin:1996:ACI

[469] K. A. DeBruin and W. Krassowska. Electroporation as a mechanism of the saturation of transmembrane potential induced by large electric fields. In *18th Annual Conference of the IEEE Engineering in Medicine and Biology Society*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1996. Accepted.

Diekmann:1996:FSE

[470] O. Diekmann, A. A. de Koeijer, and J. A. J. Metz. On the final size of epidemics within herds. *Canadian Applied Mathematics Quarterly*, 4(1):21–30, 1996. ISSN 1073-1849.

Donnelly:1996:TSA

[471] P. Donnelly, S. Tavaré, D. J. Balding, and R. C. Griffiths. On the time since Adam. *Science*, 272:1357–1359, 1996. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic).

Ellner:1996:EFM

[472] S. Ellner. Environmental fluctuations and the maintenance of genetic diversity in age or stage-structured populations. *Bulletin of Mathematical Biology*, 58:103–128, 1996. CODEN BMTBAP. ISSN 0092-8240.

Ellner:1996:PGP

[473] S. Ellner and A. Sasaki. Patterns of genetic polymorphism maintained by fluctuating selection with overlapping generations. *Theoretical Population Biology*, 50:31–65, 1996. CODEN TLPBAQ. ISSN 0040-5809.

Foss:1996:MDR

[474] Jennifer Foss, Andre Longtin, Boualem Mensour, and John Milton. Multistability and delayed recurrent loops. *Physical Review Letters*, 76(4):708–711, 1996. CODEN PRLTAO. ISSN 0031-9007 (print), 1079-7114 (electronic), 1092-0145.

Foss:1996:NMD

[475] J. Foss, F. Moss, and J. Milton. Noise, multistability and delayed recurrent loops. *Physical Review E (Statistical physics, plasmas, fluids, and related interdisciplinary topics)*, 1996. CODEN PLEEE8. ISSN 1539-3755 (print), 1550-2376 (electronic). Submitted.

Gurney:1996:EDS

[476] W. S. C. Gurney, D. A. J. Middleton, R. M. Nisbet, E. McCauley, W. W. Murdoch, and A. M. de Roos. The equilibrium demography of structured populations. *Theoretical Population Biology*, 1996. CODEN TLPBAQ. ISSN 0040-5809. In press.

Hairston:1996:OGS

[477] N. G. Hairston, Jr., S. Ellner, and C. M. Kearns. Overlapping generations: the storage effect and the maintenance of biotic diversity. In Rhodes, Jr. et al. [549], pages 109–145. ISBN 0-226-71057-2 (cloth), 0-226-71058-0 (paper). LCCN QH352 .P628 1996.

Hanski:1996:MVP

[478] I. Hanski, A. Moilanen, and M. Gyllenberg. Minimum viable population size. *American Naturalist*, 147:527–541, 1996. CODEN AMNTA4. ISSN 0003-0147.

Herwaarden:1996:SET

[479] O. A. van Herwaarden. Stochastic epidemics: The probability of extinction of an infectious disease at the end of a major outbreak. *Journal of Mathematical Biology*, 1996. CODEN JMBLAJ. ISSN 0303-6812. In press.

Hill:1996:BRWa

[480] N. A. Hill and D.-P. Häder. A biased random walk model for the trajectories of swimming micro-organisms. *Journal of Theoretical Biology*, 1996. CODEN JTBIAP. ISSN 0022-5193. Submitted.

Hill:1996:BRWb

[481] N. A. Hill and D.-P. Hader. A biased random walk model for the trajectories of swimming micro-organisms. Submitted to Philosophical Transactions of the Royal Society of London B., 1996.

Hillesdon:1996:PFS

[482] A. J. Hillesdon and T. J. Pedley. Pattern formation in suspensions of oxytactic bacteria: liner theory. *Journal of Fluid Mechanics*, 1996. CODEN JFLSA7. ISSN 0022-1120. To appear.

Holt:1996:CPD

[483] R. D. Holt and M. A. McPeek. Chaotic population dynamics favors dispersal. *American Naturalist*, 1996. CODEN AMNTA4. ISSN 0003-0147. In press.

Holt:1996:DCE

[484] R. D. Holt. Demographic constraints in evolution: Towards unifying the evolutionary theories on senescence and niche conservatism. *Evolutionary Ecology*, 10: 1–11, 1996. CODEN EVECEJ. ISSN 0269-7653.

Holt:1996:HDI

[485] R. D. Holt and R. Gomulkiewicz. How does immigration influence local adaptation? A re-examination of a familiar paradigm. *American Naturalist*, 1996. CODEN AMNATH. ISSN 0269-7699. In press.

Keener:1996:DAD

[486] J. P. Keener. Direct activation and defibrillation of cardiac tissue. *Journal of Theoretical Biology*, 178(313–324), 1996. CODEN JTBIAP. ISSN 0022-5193.

Koeijer:1996:MSP

[487] A. A. de Koeijer, O. Diekmann, and P. Reijnders. Modelling the spread of Phocine Distemper Virus (PDV) among harbor seals. Submitted., 1996.

Koutalos:1996:RSV

[488] Y. Koutalos and K. Y. Yau. Regulation of sensitivity in vertebrate rod photoreceptors by calcium. *Trends in Neurosciences (Regular ed.)*, 19(2):73–81, 1996. CODEN TNSCDR. ISSN 0166-2236, 0378-5912.

Krassowska:1996:BMPa

[489] W. Krassowska. The bidomain model. part I: Derivation. *IEEE Transactions on Biomedical Engineering*, 1996. CODEN IEBEAX. ISSN 0018-9294. Submitted.

Krassowska:1996:BMPb

[490] W. Krassowska. The bidomain model. part II: Limitations. *IEEE Transactions on Biomedical Engineering*, 1996. CODEN IEBEAX. ISSN 0018-9294. Submitted.

Krassowska:1996:RSI

[491] W. Krassowska and M. S. Kumar. The role of spatial interactions in creating the dispersion of transmembrane potential by premature electric shocks. *Annals of biomedical engineering*, 1996. CODEN ABMECF. ISSN 0090-6964. Submitted.

Kunysz:1996:BBD

[492] A. Kunysz, A. Shrier, and L. Glass. Bursting behavior during fixed delay stimulation of spontaneously beating chick heart cell aggregates. *American Journal of Physiology*, 1996. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic). Submitted.

Lebert:1996:HET

[493] M. Lebert and D.-P. Häder. How *Euglena* tells up from down. *Nature*, 379 (6566):590, 1996. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic).

McCauley:1996:SPM

[494] E. McCauley, R. M. Nisbet, A. M. de Roos, W. W. Murdoch, and W. S. C. Gurney. Structured population models of herbivorous zooplankton. *Ecology*, 1996. CODEN ECOLAR. ISSN 0012-9658. In press.

McNamara:1996:OLH

[495] J. M. McNamara. Optimal life histories for structured populations in fluctuating environments. *Theoretical Population Biology*, 1996. CODEN TLPBAQ. ISSN 0040-5809. In press.

Milton:1996:MPL

[496] J. Milton, W. Bayer, and U. an der Heiden. Modeling the pupil light re-

flex with differential delay equations. *Zeitschrift für Angewandte Mathematik und Mechanik*, 1996. CODEN ZAMMAX. ISSN 0044-2267 (print), 1521-4001 (electronic). In press.

Murdoch:1996:FPE

[497] W. W. Murdoch and R. M. Nisbet. Frontiers of population ecology. In Floyd and Sheppard [548].

Murdoch:1996:PAD

[498] W. W. Murdoch, R. M. Nisbet, E. McCauley, A. M. de Roos, and W. S. C. Gurney. Plankton abundance and dynamics across nutrient levels: Tests of hypotheses. Submitted to Ecology., 1996.

Nisbet:1996:MRI

[499] R. M. Nisbet, E. B. Muller, A. J. Brooks, and P. Hosseini. Models relating individual and population response to contaminants. Submitted to Environmental Modeling and Assessment., 1996.

Nomura:1996:ETR

[500] T. Nomura and L. Glass. Entrainment and termination of reentrant wave propagation in a periodically stimulated ring of excitable media. *Physical Review E (Statistical physics, plasmas, fluids, and related interdisciplinary topics)*, 53: 6353–6360, 1996. CODEN PLEEE8. ISSN 1539-3755 (print), 1550-2376 (electronic).

Pumir:1996:HDE

[501] A. Pumir and V. I. Krinsky. How does an electric field defibrillate cardiac muscle? *Physica D*, 91:205–219, 1996. CODEN PDNPDT. ISSN 0167-2789 (print), 1872-8022 (electronic).

Reijnders:1996:RSC

[502] P. J. H. Reijnders, S. M. J. M. Brasseur, and E. H. Ries. The release of seals from captive breeding and rehabilitation programmes: a useful conservation management tool? In Aubin et al. [547], pages 54–65. ISBN ???? LCCN ????

Richardson:1996:DBS

[503] D. E. Richardson and J. R. Goreck. Deep brain stimulation for pain relief. In Wilkins and Rengachary [550], pages 4021–4027. ISBN 0-07-079991-1 (set: hard cover), 0-07-070313-2 (vol. 1: hard cover) 0-07-070314-0 (vol. 2: hard cover) 0-07-070315-9 (vol. 3: hard cover). LCCN WL368 N52 1996.

Roos:1996:RIL

[504] A. M. de Roos, E. McCauley, R. M. Nisbet, W. S. C. Gurney, and W. W. Murdoch. Relating individual life-history and population dynamics in *Daphnia pulex*: Is the population more than a collection of individuals?, 1996. In preparation.

Sasaki:1996:QGV

[505] A. Sasaki and S. Ellner. Quantitative genetic variance and covariance maintained by fluctuating selection with overlapping generations. *Evolution*, 1996. CODEN EVOLAO. ISSN 0014-3820. Submitted.

Spiro:1996:MEA

[506] Peter Spiro, John S. Parkinson, and H. G. Othmer. A model of excitation and adaptation in bacterial chemotaxis. Submitted to PNAS, 1996.

Tang:1996:SAM

[507] Y. Tang, J. Stephenson, and H. G. Othmer. Simplification and analysis of models of calcium dynamics based on ip-sensitive calcium channel dynamics. *Biophysical Journal*, 70:246–263, 1996. CODEN BIOJAU. ISSN 0006-3495.

Tavare:1996:ICT

[508] S. Tavaré, D. J. Balding, R. C. Griffiths, and P. Donnelly. Inferring coalescence times from DNA sequence data. *Genetics*, 1996. CODEN GENTAE. ISSN 0016-6731. Submitted.

Tuljapurkar:1996:SMM

[509] Shripad Tuljapurkar and Hal Caswell. *Structured-Population Models in Marine, Terrestrial, and Freshwater Systems*. Chapman and Hall, Ltd., London, UK, 1996. ISBN 0-412-07261-0 (hardcover), 0-412-07271-8 (paperback). LCCN QH352 .S86 1996.

Tyson:1996:CKT

[510] J. J. Tyson, B. Novak, G. M. Odell, K. Chen, and C. D. Thron. Chemical kinetic theory as a tool for understanding the regulation of M-phase promoting factor in the cell cycle. *Trends in biochemical sciences*, 21:89–96, 1996. CODEN TBSCDB, TBSRDM. ISSN 0968-0004, 0167-7640, 0376-5067.

Vincent:1996:BSP

[511] R. V. Vincent and N. A. Hill. Bioconvection in a suspension of phototactic algae. *Journal of Fluid Mechanics*, 300:1–29, 1996. CODEN JFLSA7. ISSN 0022-1120. To appear.

Zhou:1996:TPC

[512] X. Zhou, W. M. Smith, R. E. Ideker, and D. L. Rollins. Transmembrane potential changes caused by shocks in guinea pig papillary muscle. *American Journal of Physiology*, 1996. CODEN AJPHAP. ISSN 0002-9513 (print), 2163-5773 (electronic). to appear.

Hairston:1997:PVZ

[513] N. G. Hairston, Jr., C. M. Kearns, and S. Ellner. Phenotypic variation in a zooplankton egg bank. *Ecology*, 1997. CODEN ECOLAR. ISSN 0012-9658. In press.

Holt:1997:RES

[514] R. D. Holt. Rarity and evolution; some theoretical considerations. In Kunin and Gaston [551], pages 209–234. ISBN ???? LCCN ???? In press.

Leibovic:1969:IPN

[515] K. N. Leibovic, editor. *Information processing in the nervous system; proceedings of a symposium held at the State University of New York at Buffalo, 21st–24th October, 1968*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1969.

Green:1970:LED

[516] A. E. Green and J. E. Adkins. *Large elastic deformations*. Clarendon Press, Oxford, UK, 1970. ISBN 0-19-853334-9. xiv + 324 pp. LCCN QA935.G73 1970.

Rice:1972:SMN

[517] Stuart A. Rice, Karl F. Freed, and John C. Light, editors. *Statistical mechanics; new concepts, new problems, new applications*. University of Chicago

Press, Chicago, IL, USA, 1972. ISBN 0-226-71115-3. LCCN QC175 .I5 1971. IUPAP Conference on Statistical Mechanics (6th: 1971: Chicago, IL).

Fitzgibbon:1977:ND

[518] W. E. Fitzgibbon, III and H. F. Walker, editors. *Nonlinear Diffusion*, volume 14 of *Research notes in mathematics*. Pitman Publishing Ltd., London, UK, 1977. ISBN 0-273-01066-2. 232 pp. LCCN QA274.75 .N66.

Baan:1978:CSD

[519] Jan Baan, Abraham Noordergraaf, and Jeff Raines, editors. *Cardiovascular System Dynamics*. MIT Press, Cambridge, MA, USA, 1978. ISBN 0-262-18078-2. xiv + 618 pp. LCCN RC670.C37.

Segel:1980:MMM

[520] Lee A. Segel, editor. *Mathematical Models in Molecular and Cellular Biology*. Cambridge University Press, Cambridge, 1980. ISBN 0-521-22925-1. ix + 757 pp. LCCN QH506 .M38.

Reijnders:1981:MMW

[521] P. J. H. Reijnders and W. J. Wolff, editors. *Marine Mammals of the Wadden Sea: final report of the section 'marine mammals' of the Wadden Sea Working Group*. Balkema, Rotterdam, 1981. ISBN 90-6191-057-9. 64 pp. LCCN QL713.2 .M364 1982.

Strathern:1981:MBY

[522] Jeffrey N. Strathern, Elizabeth W. Jones, and James R. Broach, editors. *The Molecular Biology of the Yeast Saccharomyces*. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA, 1981. ISBN 0-87969-149-2. x + 680 pp. LCCN QK623.S23 M643 1982.

Glover:1981:GTM

[523] S. W. Glover and D. A. Hopwood, editors. *Genetics as a tool in microbiology*. Cambridge University Press, Cambridge, UK, 1981. ISBN 0-521-23748-3. LCCN QR1 .S7 v.31.

Koch:1982:EPS

[524] G. Koch and F. Spizzichino, editors. *Exchangeability in probability and statistics: proceedings of the International Conference on Exchangeability in Probability and Statistics, Rome, 6th–9th April, 1981, in honour of Professor Bruno de Finetti*. North-Holland Publishing Co., Amsterdam, The Netherlands, 1982. ISBN 0-444-86403-2. LCCN QA273.A1 I55 1981.

Nurse:1984:MCC

[525] Paul Nurse and Eva Streiblova, editors. *The Microbial Cell Cycle*. CRC Press, 2000 N.W. Corporate Blvd., Boca Raton, FL 33431-9868, USA, 1984. ISBN 0-442-30778-0, 0-17-771103-5. 88 pp. LCCN QR73.7 .M53 1984.

Field:1985:OTW

[526] Richard J. Field and Maria Burger, editors. *Oscillations and Traveling Waves in Chemical Systems*. Wiley, 1985. ISBN 0-471-89384-6. LCCN QD502 .O83 1985. US$85.00.

Meinardus:1985:DEA

[527] G. Meinardus and G. Nurnberger, editors. *Delay Equations, Approximation and Application: international symposium at the University of Mannheim,*

October 8–11, 1984, volume 74 of *International series of numerical mathematics*. Birkhäuser Verlag, Basel, Switzerland, 1985. ISBN 3-7643-1733-7. LCCN QA371 .D37 1985.

Press:1986:NRA

[528] William H. Press, Brian P. Flannery, Saul A. Teukolsky, and William T. Vetterling. *Numerical Recipes: The Art of Scientific Computing*. Cambridge University Press, Cambridge, UK, 1986. ISBN 0-521-30811-9. 390–396; 449–453; and 646–647 (of xx + 818) pp. LCCN QA76.73.F25N84 1986.

Rensing:1987:TDH

[529] L. Rensing, U. an der Heiden, and M. C. Mackey, editors. *Temporal Disorder in Human Oscillatory Systems*, volume 36 of *Springer series in synergetics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1987. ISBN 0-387-17765-5. ix + 259 pp. LCCN QP84.6 .T44 1987.

Eisen:1988:SIC

[530] E. J. Eisen, M. M. Goodman, G. Namkoong, and B. S. Weir, editors. *The Second International Conference on Quantitative Genetics*. Sinauer Associates, Inc., Sunderland, MA, 1988. ISBN 0-87893-900-8, 0-87893-901-6 (paperback). xii + 724 pp.

Neumann:1989:EEC

[531] E. Neumann, A. E. Sowers, and C. A. Jordan, editors. *Electroporation and Electrofusion in Cell Biology*. Plenum Press, New York, NY, USA; London, UK, 1989. ISBN 0-306-43043-6. xviii + 436 pp. LCCN QH585.5.E48 E44 1989.

Zipes:1990:CEC

[532] D. P. Zipes and J. Jalife, editors. *Cardiac Electrophysiology: From Cell to Bedside*. W. B. Saunders, Philadelphia, PA, USA, 1990. ISBN 0-7216-1408-6. xxiv + 1034 + 2 pp. LCCN WG330 C38 1990.

Borsellino:1990:ST

[533] A. Borsellino, L. Cervetto, and V. Torre, editors. *Sensory Transduction*. Plenum Press, New York, NY, USA; London, UK, 1990.

Goldstein:1991:DEA

[534] Jerome A. Goldstein, Franz Kappel, and Wwilhelm Schappacher, editors. *Differential Equations with Applications in Biology, Physics, and Engineering*. Marcel Dekker, Inc., New York, NY, 1991. ISBN 0-8247-8571-1. xiii + 332 pp. LCCN QA370 .D56 1991.

Guyton:1991:TMP

[535] Arthur C. Guyton. *Textbook of Medical Physiology*. W. B. Saunders Company, Philadelphia PA, 1991. ISBN 0-7216-3087-1. 97–109 (of xli + 1014) pp. LCCN QP34.5.G9 1991.

Holden:1991:NWP

[536] A. V. Holden, M. Markus, and Hans G. Othmer, editors. *Nonlinear Wave Processes in Excitable Media*, volume 244 of *NATO ASI series. Series B, Physics*. Plenum Press, New York, NY, USA; London, UK, 1991. ISBN 0-306-43800-3. LCCN QA927 .N27 1989.

DeAngelis:1992:IMA

[537] Donald L. DeAngelis and Louis J. Gross, editors. *Individual-based models and ap-*

proaches in ecology: populations, communities, and ecosystems. Routledge, Chapman and Hall, New York, NY, 1992. ISBN 0-412-03161-2 (hardcover), 0-412-03171-X (paperback). xix + 525 pp. LCCN QH352 .I53 1992. US$65.00 (hardcover), US$29.00 (paperback).

Takahata:1992:MME

[538] Naoyuki Takahata and Andrew G. Clark, editors. *Mechanisms of Molecular Evolution: Introduction to Molecular Paleopopulation Biology*. Sinauer Associates, Inc., Sunderland, MA, 1992. ISBN 4-7622-6718-X, 0-87893-825-7. x + 250 pp. LCCN QH352 .M43 1993.

Chorin:1993:MIF

[539] Alexandre J. Chorin and Jerrold E. Marsden. *A Mathematical Introduction to Fluid Mechanics*. Springer-Verlag, New York NY, 1993. ISBN 0-387-97918-2. ix + 169 pp. LCCN QA901.C53 1993.

Josephson:1993:TMM

[540] M. E. Josephson and H. J. J. Wellens, editors. *Tachycardias: Mechanisms and Management*, volume 6 of *The Bakken Research Center series*. Futura, Mount Kisco, NY, USA, 1993. ISBN 0-87993-549-9. xii + 564 pp. LCCN WG 330 T117-3 1993.

Kareiva:1993:BIG

[541] P. M. Kareiva, J. G. Kingsolver, and R. B. Huey, editors. *Biotic Interactions and Global Climate Change*. Sinauer Associates, Inc., Sunderland, MA, 1993. ISBN 0-87893-429-4, 0-87893-430-8 (paperback). xii + 559 pp. LCCN QH546 .B55 1993. US$55.00, US$35.00 (paperback).

Othmer:1993:ETA

[542] H. G. Othmer, P. K. Maini, and J. D. Murray, editors. *Experimental and Theoretical Advances in Biological Pattern Formation*, volume 259 of *NATO ASI series. Series A, Life sciences*. Plenum Press, New York, NY, USA; London, UK, 1993. ISBN 0-306-44661-8. ix + 388 pp. LCCN QH491 .N38 1993.

Yoshimura:1993:ASE

[543] J. Yoshimura and C. W. Clark, editors. *Adaptation in Stochastic Environments*, volume 98 of *Lecture Notes in Biomathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1993. ISBN 3-540-56681-3 (Berlin), 0-387-56681-3 (New York). vi + 193 pp. LCCN QH546 .A28 1993.

IEEE:1995:PAI

[544] IEEE, editor. *Proceedings of the 17th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS): Montreal, Canada, September 20–23, 1995*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1995.

Bock:1995:CWG

[545] Gregory Bock and Kate Ackrill, editors. *Calcium Waves, Gradients and Oscillations*, volume 188 of *Ciba Foundation symposium*. John Wiley and Sons, New York, NY, USA; London, UK; Sydney, Australia, 1995. ISBN 0-471-95234-6. LCCN QP535.C2 C267 1995. UK£47.50. Proceedings of a symposium held at Ciba Foundation, London, 26–28 April 1994.

Ellington:1995:BFD

[546] C. P. Ellington and T. J. Pedley, editors. *Biological Fluid Dynamics: Proceedings of a meeting held at the University of Leeds, UK, 4–8 July 1994*, volume 49 of *Symposia of the Society for Experimental Biology*. The Company of Biologists Limited, Cambridge, UK, 1995. ISBN 0-948601-50-7. LCCN QH301 .S74 no.49.

Aubin:1996:RRR

[547] David J. St. Aubin, Joseph R. Geraci, and Valerie J. Lounsbury, editors. *Rescue, Rehabilitation and Release of Marine Mammals: An Analysis of Current Views and Practices: Proceedings of a workshop held in Des Plaines, Illinois, 3–5 December 1991*, volume NMFS-OPR 8 of *NOAA technical memorandum*. NOAA, Washington, DC, 1996. ISBN ???? 65 pp. LCCN ????

Floyd:1996:FPE

[548] R. B. Floyd and A. W. Sheppard, editors. *Frontiers of Population Ecology*. CSIRO Press, Melbourne, Australia, 1996.

Rhodes:1996:PDE

[549] Olin E. Rhodes, Jr., Ronald K. Chesser, and Michael H. Smith, editors. *Population Dynamics in Ecological Space and Time*. University of Chicago Press, Chicago, IL, USA, 1996. ISBN 0-226-71057-2 (cloth), 0-226-71058-0 (paper). viii + 388 pp. LCCN QH352 .P628 1996.

Wilkins:1996:N

[550] Robert H. Wilkins and Setti S. Rengachary, editors. *Neurosurgery*. McGraw-Hill, New York, NY, USA, 1996. ISBN 0-07-079991-1 (set: hard cover), 0-07-070313-2 (vol. 1: hard cover) 0-07-070314-0 (vol. 2: hard cover) 0-07-070315-9 (vol. 3: hard cover). xlv + 4271 + 96 pp. LCCN WL368 N52 1996.

Kunin:1997:BR

[551] W. Kunin and K. Gaston, editors. *The Biology of Rarity*. Chapman and Hall, Ltd., London, UK, 1997. ISBN ???? ???? pp. LCCN ????

Adler:1997:PIE

[552] Frederick R. Adler. Part I: Ecology and evolution. In Othmer et al. [573], pages 1–2. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL `http://www.math.utah.edu/books/csmmepcb/index.html`; `http://www.math.utah.edu/pub/tex/bib/csmmepcb.html`; `http://www.phptr.com/`.

Ellner:1997:YBY

[553] Stephen P. Ellner. You bet your life: Life-history strategies in fluctuating environments. In Othmer et al. [573], chapter 1, pages 3–24. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL `http://www.math.utah.edu/books/csmmepcb/index.html`; `http://www.math.utah.edu/pub/tex/bib/csmmepcb.html`; `http://www.phptr.com/`.

Holt:1997:ESN

[554] Robert D. Holt and Richard Gomulkiewicz. The evolution of species' niches: A population dynamic perspective. In Othmer et al. [573], chapter 2, pages 25–50. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL `http://www.math.utah.edu/books/csmmepcb/`

index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Diekmann:1997:RME

[555] Odo Diekmann. Reflections on models of epidemics triggered by the case of Phocine Distemper Virus among seals. In Othmer et al. [573], chapter 3, pages 51–59. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Nisbet:1997:SRB

[556] R. M. Nisbet, E. McCauley, W. S. C. Gurney, W. W. Murdoch, and A. M. de Roos. Simple representations of biomass dynamics in structured populations. In Othmer et al. [573], chapter 4, pages 61–79. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Tavare:1997:AID

[557] Simon Tavaré. Ancestral inference from DNA sequence data. In Othmer et al. [573], chapter 5, pages 81–96. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Lewis:1997:PIC

[558] Mark A. Lewis. Part II: Cell biology. In Othmer et al. [573], pages 97–98. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Othmer:1997:STS

[559] Hans G. Othmer. Signal transduction and second messenger systems. In Othmer et al. [573], chapter 6, pages 99–126. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Tyson:1997:ECC

[560] John J. Tyson, Kathy Chen, and Bela Novak. The eukaryotic cell cycle: Molecules, mechanisms, and mathematical models. In Othmer et al. [573], chapter 7, pages 127–147. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Mackey:1997:MMH

[561] Michael C. Mackey. Mathematical models of hematopoietic cell replication and control. In Othmer et al. [573], chapter 8, pages 149–178. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://

www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Milton:1997:OMD

[562] John Milton and Jennifer Foss. Oscillations and multistability in delayed feedback control. In Othmer et al. [573], chapter 9, pages 179–198. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Sherman:1997:CMP

[563] Arthur Sherman. Calcium and membrane potential oscillations in pancreatic β-cells. In Othmer et al. [573], chapter 10, pages 199–217. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Othmer:1997:PIP

[564] Hans G. Othmer. Part III: Physiology. In Othmer et al. [573], pages 219–220. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Pate:1997:MMM

[565] Edward Pate. Mathematical modeling of muscle crossbridge mechanics. In Othmer et al. [573], chapter 11, pages 221–254. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Glass:1997:TPR

[566] Leon Glass. The topology of phase resetting and the entrainment of limit cycles. In Othmer et al. [573], chapter 12, pages 255–276. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Krassowska:1997:MIC

[567] Wanda Krassowska. Modeling the interaction of cardiac muscle with strong electric fields. In Othmer et al. [573], chapter 13, pages 277–308. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Peskin:1997:FDH

[568] Charles S. Peskin and David M. McQueen. Fluid dynamics of the heart and its valves. In Othmer et al. [573], chapter 14, pages 309–337. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Hill:1997:B

[569] N. A. Hill. Bioconvection. In Othmer et al. [573], chapter 15, pages 339–351. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.

Adler:1997:AM

[570] Frederick R. Adler. Age-structured models. In Othmer et al. [573], pages 353–356. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/. Appendix A.

Lewis:1997:QTO

[571] Mark A. Lewis and Hans G. Othmer. Qualitative theory of ordinary differential equations. In Othmer et al. [573], pages 357–380. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/. Appendix B.

Othmer:1997:IPD

[572] Hans G. Othmer. An introduction to partial differential equations. In Othmer et al. [573], pages 381–386. ISBN 0-13-574039-8. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/. Appendix C.

Othmer:1997:CSM

[573] H. G. Othmer, F. R. Adler, M. A. Lewis, and J. C. Dallon, editors. *Case Studies in Mathematical Modeling—Ecology, Physiology, and Cell Biology.* Prentice-Hall, Englewood Cliffs, NJ 07632, USA, 1997. ISBN 0-13-574039-8. viii + 411 pp. LCCN QH541.15.M3C37 1997. US$41.00. URL http://www.math.utah.edu/books/csmmepcb/index.html; http://www.math.utah.edu/pub/tex/bib/csmmepcb.html; http://www.phptr.com/.