A Bibliography of Publications of Frank Stenger

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org, beebe@ieee.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

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Abstract
This bibliography records publications of Frank Stenger.

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REFERENCES


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References

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

[44] Frank Stenger. Connection between a Cauchy system representation of
Kalaba and Fourier transforms. *Applied Mathematics and Computation*,
1(1):83–91, January 1975. CODEN AMHCBO. ISSN 0096-3003 (print),
1873-5649 (electronic).

[45] Frank Stenger. Computing the topological degree of a mapping in $\mathbb{R}^n$.
ISSN 0029-599X (print), 0945-3245 (electronic).

[46] F. Stenger and I. Rosenberg. A lower bound on the angles of triangles
constructed by bisecting the longest side. *Mathematics of Computation*,
29(130), 1975. CODEN MCMPAF. ISSN 0025-5718 (paper), 1088-6842
(electronic).

[47] Charles Harvey and Frank Stenger. A two-dimensional analogue to the
method of bisections for solving nonlinear equations. *Quarterly of Applied
Mathematics*, 33(??):351–368, ????? 1976. CODEN QAMAAY. ISSN
0033-569X (print), 1552-4485 (electronic).

[48] Y. Ikebe, T. Y. Li, and F. Stenger. The numerical solution of the Hilbert
Univ. Calgary, Calgary, Alta., 1975; dedicated to the memory of Eckard

[49] Karl Nickel. Error bounds and uniqueness for the solutions of nonlin-
erar, strongly coupled, parabolic systems of differential equations. MRC
Technical Summary Report 1596, Mathematics Research Center, US De-
partment of the Army, Madison, WI, USA, 1976. 20 pp.

[50] F. Stenger, W. Petrick, and Z. Rotsides. Algorithm for computing
electromagnetic scattered field from an axially-symmetric body with an
CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic).
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

AMHCBQ. ISSN 0096-3003 (print), 1873-5649 (electronic). Second Copper Mountain conference on multigrid methods (Copper Mountain, Colo., 1985).


Dikshit:1988:RTW


Stenger:1988:BRB


Stenger:1988:RCC


Ang:1989:CVR


Ang:1989:VFD


Kowalski:1989:OCR


Stenger:1989:EAM


[100] Frank Stenger. Some open research problems in sonic and electromagnetic inversion. In Martin and White [177], pages 73–89.


REFERENCES


REFERENCES


[121] Frank Stenger. Sinc inversion of the Helmholtz equation without computing the forward solution. In Ång et al. [183], pages 149–157. ISBN ????? LCCN ?????


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Moler:1969:MSC


McArthur:1994:BRB


Bialecki:2009:GEP


Stenger:2015:CMC

[163] Frank Stenger, Gerd Baumann, and Vasilios G. Koures. Computational methods for chemistry and physics, and schrödinger in 3 + 1. Preprint, University of Utah; German University in Cairo; IISAM L3C, Salt Lake City, UT, USA; New Cairo City, Egypt; Oklahoma City, OK, USA, February 24, 2015. 44 pp. To be published in the proceedings of a conference of December 2014 honoring the 85th birthday of Frank E. Harris.

Nalcioglu:1984:STI


Bettis:1974:PCN

REFERENCES


REFERENCES


REFERENCES


[177] Clyde Martin and John White, editors. Visiting scholars’ lectures 1989, Texas Tech University, Lubbock, TX (USA), volume 16 of Mathematics Series. Department of Mathematics, Texas Tech University, Lubbock, TX, USA, 1990.


REFERENCES


[186] Gary B. Kromann, J. Richard Culham, and Koneru Ramakrishna, editors. ITherm 2000: the Seventh Intersociety Conference on Thermal and

