

Publications for 2006

Refereed Article Publications

| Author | Title |
|--|--|
| Andrew F. Acker III | "On the non-starlikeness of solutions to the starlike interior wake problem," Proceedings of the American Mathematical Society, Vol. 134, no. 3 (2006): 749-753. |
| Andrew F. Acker III | (with M. Poghosyan, H. Shahgholian) "Convex configurations for solutions to semilinear elliptic problems in convex rings," Comm. in Part. Diff. Eqs., Vol. 31, no. 7-9 (2006): 1273-1287. |
| Alexandre Boukhgueim | "The Carleman Formula for the Helmgoltz Equation on the plane," Siberian Mathematical Journal ,vol.47,N 3(2006): 518-526. |
| Alexandre Boukhgueim | "Inversion of the Radon Transform Based on the Theory of A-analytic Functions with Applications to 3D Inverse Kinematic Problem with LocalData," Journal of Inverse and Ill-Posed Problems, vol.14.N3(2006): 1-16. |
| Dharam V. Chopra | (with R. Dios) "Investigations on the Existence of Some Balanced Arrays with two Symbols," .Journal of Combinatorial Mathematics and Combinatorial Copmting 58 (2006): 33-39. |
| Dharam V. Chopra | (with Lee,S.M.) "On Q(a)P(b)-Super Edge-graceful Graphs.Journal of Combinatorial Mathematics and Combinatorial Computing 58 (2006): 135-153. |
| Thomas K. DeLillo | "Schwarz-Christoffel mapping of bounded, multiply connected domains," Computational Methods and Function Theory Journal, 6 No. 2 (2006): 275-300. |
| Thomas K. DeLillo | (with T. Hrycak) "A stopping rule for the conjugate gradient regularization method applied to inverse problems in acoustics," Journal of Computational Acoustics, 14, No. 4 (2006): 1-17. |
| Thomas K. DeLillo Alan Elcrat | (with T. Driscoll and J. Pfaltzgraff) "Computation of multiply connected Schwarz-Christoffel maps for exterior domains," Computational Methods and Function Theory Journal, 6, No. 2 (2006): 301-315. |
| Alan Elcrat Kenneth Miller | "Free surface waves in equilibrium with a vortex," European Journal of Mechanics-B/Fluids, 25 (2006): 255-266. |
| Buma Fridman Daowei Ma | (with J.-P. Vigue) "Isolated fixed point sets for holomorphic maps," J. Math. Pures Appl., 86(2006): 80-87. |
| Buma Fridman Daowei Ma | (with K. T. Kim and S. G. Krantz) "On determining sets for holomorphic automorphisms," Rocky Mountain Journal of Mathematics, vol. 36, 3 (2006): 947-956. |
| Lop-Hing Ho | (with Kung-sik Chan and Howell Tong) "A note on time-reversibility of multivariate linear processes," Biometrika, 93 (2006): 221-227. |
| Xiaomi Hu | "Approximation of partial distribution in renewal function calculation," Computational Statistics and Data Analysis, 50(6): 1615-1624. |
| Xiaomi Hu | "Unbiaseness on rays of the tests of locations of homogeneous means in isotonic regression," Statistics and Probability Letters, 76 (2006): 976-980. |
| Victor Isakov | "On uniqueness in the inverse conductivity problem with local data," Inverse Problems and Imaging, 1 (2007): 95-105. |
| Zhiren Jin | "Existence of solutions of the prescribed mean curvature equation on unbounded domains," Proceedings of the Royal Society of Edinburgh, 136A(2006): 157-179. |

Kirk Lancaster (with Julie Crenshaw) "Behavior of some CMC capillary surfaces at convex corners," *Pacific J. Math.* 224 (2006), no. 2, 231--246.

Chunsheng Ma (with F. Ababneh, L. Jermiin, and J. Robinson) "Matched-pairs tests of homogeneity with applications to homologous nucleotide sequences," *Bioinformatics*, 22 (2006): 1225-1231.

Daowei Ma (with Y. Huang, G. and Chen) "Rapid Fluctuations of Chaotic Maps on R^n ," *J. Math. Anal. Appl.*, 323(2006): 228-252.

Hari Mukerjee "Restricted Estimation of the Cumulative Incidence Functions Corresponding to Competing Risks," *Institute of Mathematical Statistics, Lecture Notes-Monograph Series*, J. Rojo, Ed., Vol 49 (2006): 241-252.

Jianliang Qian (With E. Chung, G. Uhlmann, and H.-K. Zhao) "A new phase space method for recovering index of refraction from travel times," *Inverse Problems*, 23(2007): 309-329.

Jianliang Qian (With S. Leung) "An adjoint state method for 3-D transmission traveltime tomography using first-arrivals," *Comm. Math. Sci.*, 4(2006): 249-266.

Jianliang Qian (With S. Leung) "A local level set method for paraxial geometrical optics," *SIAM J. Sci. Comput.*, 28 (2006): 206-223.

Jianliang Qian (With R. Burridge) "The fundamental solution of the time-dependent system of crystal optics," *European J. Appl. Math.*, 17(2006): 63-94.

Christian Wolf "Generalized physical and SRB measures for hyperbolic diffeomorphisms," *Journal of Statistical Physics* 122 (2006), no. 6, 1111-1138.

Christian Wolf (with L. Barreira) "Pointwise dimension and ergodic decompositions," *Ergodic Theory & Dynamical Systems* 26 (2006): 653-671.

Christian Wolf (with S. Hayes) "Dynamics of a one-parameter family of H'enon maps," *Dynamical Systems* 21 (2006): 399-407.

Book Publications

| Author | Title |
|----------------------|---|
| Victor Isakov | "Inverse Problems for PDE" (Revised edition, published by Springer-Verlag, New York). |

Published Conference Proceedings

| Author | Title |
|---------------------|---|
| Chunsheng Ma | "On Lot Acceptance and Compliance Testing in Terms of the Sample Mean and Minimum/Maximum," <i>International Conference on Design of Experiments and Its Applications</i> , July 9-13, 2006, Nankai University, Tianjin, China. |

Book Chapters and Publications in Anthologies

| Author | Title |
|--------------------------|---|
| Phillip E. Parker | "Pseudo-Riemannian Nilpotent Lie Groups," Encyclopedia of Mathematical Physics, eds. J.-P. Francoise, G.,L. Naber and Tsou S.,T. Oxford: Elsevier, 2006. vol.,4, 94--104. |

Formal Papers Delivered at Professional Meetings

| Author | Title |
|--------------------------|---|
| Alan Elcrat | "Computation of Multiply Connected Schwarz-Christoffel Transformations," Special Session on Advances in Conformal Mapping, SIAM National Meeting, Boston Mass., July 14 2006. |
| Dharam V. Chopra | "Some Results on Balanced Arrays of with two symbols," Thirty-Seventh Southeast International Conference on Combinatorics, Graph Theory, and Computing held in Boca Raton (FL), March 2006. |
| Dharam V. Chopra | (with Bsharat, M) "Some New Results on Balanced Arrays of Strength Five," Twentieth Mid-West Conference on Combinatorics, Cryptography, and Computing held in Wichita (KS), October 2006. |
| Dharam V. Chopra | (with Dios, R. and Lee, S.M) "On the edge-magicness of Zykov Sum of Graphs," Twentieth Mid-West Conference on Combinatorics, Cryptography, and Computing held in Wichita (KS), October 2006. |
| Dharam V. Chopra | (with Lee, S.M. and Sun, Hugo) "On the Integer Magic Spectra of the Generalized Theta Graphs," Twentieth MidWest Conference on Combinatorics, Cryptography, and Computing held in Wichita (KS), October 2006. |
| Thomas K. DeLillo | "Multiply Connected Schwarz-Christoffel Mapping: Some Theoretical Aspects," invited minisymposium talk, SIAM Annual meeting, Boston, MA, 7/14/06. |
| Thomas K. DeLillo | "Schwarz-Christoffel Mapping of Bounded and Unbounded Multiply Connected Domains," invited talk, Kansas State University Math Dept Analysis seminar, 11/8/06. |
| Buma Fridman | "Discrete fixed point sets for holomorphic maps," conference Analytic and Geometric Theories of Holomorphic and CR Mappings in Banff, Canada 4/29-5/04. |
| Victor Isakov | "On inverse problems for drift diffusion systems," Inverse Problems Reunion, IPAM, UCLA, CA, June 2006. |
| Victor Isakov | "The inverse conductivity problem with limited data and applications," International conference "Inverse Problems in Applied Sciences," Sapporo, Japan, June 2006. |
| Victor Isakov | "Use of several frequencies in inverse scattering: new uniqueness and stability results," International Workshop Inverse Problems and Applications, Banff, Canada, 2006. |
| Hari Mukerjee | "Restricted Tests for k Distribution Functions Using Bessel Bridges," Institute of Mathematical Statistics Western Regional Meeting, Flagstaff, AZ, June 30, 2006. |

Book Reviews Published in Professional Journals and Abstracts

| Author | Title |
|-------------------------|--|
| Dharam V. Chopra | "Regression analysis for categorical moderators," by H.Aquinis.Guilford,Choice 42(#5),2005,p.38. |
| Dharam V. Chopra | "Handbook of beta distribution and its applications," by A.K Gupta and S.Nadarajah (Marcel Dekker),Choice 42(#6),2005,p.1058. |
| Dharam V. Chopra | "An introduction to measure theoretic probability," by George Roussas,Elsevier,Choice 42(#7),2005,pp.1363-1364. |
| Dharam V. Chopra | "Applied regression modeling and causal inference from incomplete data," edited by A.Gilman and Xiao-Li Meng.Wiley,Choice 43(#3),2005,p.136. |
| Dharam V. Chopra | "Mathematical Statistics with Applications," by A.S.Kapadia,W.Chan,and L.Maye.Chapman and Hall,Choice 43(#3),2005,P.524. |
| Anna Sue Neal | "Stuff Ya Gotta Know, Integrating High School Mathematics with Cultural Evolution," Corwin Press (2006) |
| Anna Sue Neal | "Trigonometry" by Young, Content Connections (2006) |
| Anna Sue Neal | "Mathematics for Secondary Teachers: Basics, Connections and Extensions," Key Curriculum Press (2006) |
| Anna Sue Neal | "Making Connections and Using Representations in Problem Solving: A Problem from Japan," MCTM (2006) |
| Anna Sue Neal | "Secret Snowflake," NCTM (2006) |

