
Record 1 of 495

Title: Hair removal methods: A comparative study for dermoscopy images

Author(s): Abbas, Q (Abbas, Qaisar); Celebi, ME (Celebi, M. E.); Garcia, IF (Fondon Garcia, Irene)

Source: BIOMEDICAL SIGNAL PROCESSING AND CONTROL **Volume:** 6 **Issue:** 4 **Pages:** 395-404 **DOI:** 10.1016/j.bspc.2011.01.003 **Published:** OCT 2011

ISSN: 1746-8094

Record 2 of 495

Title: A cascadic multigrid method for a kind of semilinear elliptic problem

Author(s): Yu, HX (Yu, Haixiong); Zeng, JP (Zeng, Jinping)

Source: NUMERICAL ALGORITHMS **Volume:** 58 **Issue:** 2 **Pages:** 143-162 **DOI:** 10.1007/s11075-011-9450-0 **Published:** OCT 2011

ISSN: 1017-1398

Record 3 of 495

Title: Statistics and Nose formalism for Ehrenfest dynamics

Author(s): Alonso, JL (Alonso, J. L.); Castro, A (Castro, A.); Clemente-Gallardo, J (Clemente-Gallardo, J.); Cuchi, JC (Cuchi, J. C.); Echenique, P (Echenique, P.); Falceto, F (Falceto, F.)

Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL **Volume:** 44 **Issue:** 39 **Article Number:** 395004 **DOI:** 10.1088/1751-8113/44/39/395004 **Published:** SEP 30 2011

ISSN: 1751-8113

Record 4 of 495

Title: A comparison between reduced dimensionality and mixed quantum/classical evaluations of $k(T)$ using the flux-flux correlation function formalism

Author(s): Clavero, E (Clavero, Esteban); Palma, J (Palma, Juliana)

Source: CHEMICAL PHYSICS LETTERS **Volume:** 513 **Issue:** 1-3 **Pages:** 139-144 **DOI:** 10.1016/j.cplett.2011.07.069 **Published:** SEP 6 2011

ISSN: 0009-2614

Record 5 of 495

Title: Wavelet-based multilevel methods for linear ill-posed problems

Author(s): Klann, E (Klann, E.); Ramlau, R (Ramlau, R.); Reichel, L (Reichel, L.)

Source: BIT NUMERICAL MATHEMATICS **Volume:** 51 **Issue:** 3 **Pages:** 669-694 **DOI:** 10.1007/s10543-011-0320-x **Published:** SEP 2011

ISSN: 0006-3835

Record 6 of 495

Title: Error-controlled global sensitivity analysis of ordinary differential equations

Author(s): Weiss, AY (Weiss, Andrea Y.); Huisinga, W (Huisinga, Wilhelm)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 230 **Issue:** 17 **Pages:** 6824-6842 **DOI:** 10.1016/j.jcp.2011.05.011 **Published:** JUL 20 2011

ISSN: 0021-9991

Record 7 of 495

Title: A Continuum Mechanical Approach to Geodesics in Shape Space

Author(s): Wirth, B (Wirth, Benedikt); Bar, L (Bar, Leah); Rumpf, M (Rumpf, Martin); Sapiro, G (Sapiro, Guillermo)
Source: INTERNATIONAL JOURNAL OF COMPUTER VISION **Volume:** 93 **Issue:** 3 **Pages:** 293-318 **DOI:** 10.1007/s11263-010-0416-9 **Published:** JUL 2011
ISSN: 0920-5691

Record 8 of 495

Title: A Variational Framework for Exemplar-Based Image Inpainting

Author(s): Arias, P (Arias, Pablo); Facciolo, G (Facciolo, Gabriele); Caselles, V (Caselles, Vicent); Sapiro, G (Sapiro, Guillermo)

Source: INTERNATIONAL JOURNAL OF COMPUTER VISION **Volume:** 93 **Issue:** 3 **Pages:** 319-347 **DOI:** 10.1007/s11263-010-0418-7 **Published:** JUL 2011

ISSN: 0920-5691

Record 9 of 495

Title: Mixed quantum-classical simulations of charge transport in organic materials: Numerical benchmark of the Su-Schrieffer-Heeger model

Author(s): Wang, LJ (Wang, Linjun); Beljonne, D (Beljonne, David); Chen, LP (Chen, Liping); Shi, Q (Shi, Qiang)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 134 **Issue:** 24 **Article Number:** 244116 **DOI:** 10.1063/1.3604561 **Published:** JUN 28 2011

ISSN: 0021-9606

Record 10 of 495

Title: Preconditioning a class of fourth order problems by operator splitting

Author(s): Bansch, E (Baensch, Eberhard); Morin, P (Morin, Pedro); Nochetto, RH (Nochetto, Ricardo H.)

Source: NUMERISCHE MATHEMATIK **Volume:** 118 **Issue:** 2 **Pages:** 197-228 **DOI:** 10.1007/s00211-010-0333-4 **Published:** JUN 2011

ISSN: 0029-599X

Record 11 of 495

Title: Direct Mixed-Quantum/Classical Computations of $k(T)$. An Analysis of the Use of Different Coordinate Systems

Author(s): Clavero, E (Clavero, Esteban); Palma, J (Palma, Juliana)

Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY **Volume:** 111 **Issue:** 7-8 **Special Issue:** SI **Pages:** 1773-1783 **DOI:** 10.1002/qua.22775 **Published:** JUN-JUL 2011

ISSN: 0020-7608

Record 12 of 495

Title: High Dynamic Range Image Display With Halo and Clipping Prevention

Author(s): Guarnieri, G (Guarnieri, Gabriele); Marsi, S (Marsi, Stefano); Ramponi, G (Ramponi, Giovanni)

Source: IEEE TRANSACTIONS ON IMAGE PROCESSING **Volume:** 20 **Issue:** 5 **Pages:** 1351-1362 **DOI:** 10.1109/TIP.2010.2092436 **Published:** MAY 2011

ISSN: 1057-7149

Record 13 of 495

Title: An efficient, reliable and robust error estimator for elliptic problems in $R(3)$

Author(s): Holst, M (Holst, Michael); Ovall, JS (Ovall, Jeffrey S.); Szypowski, R (Szypowski, Ryan)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 61 **Issue:** 5 **Pages:** 675-695 **DOI:** 10.1016/j.apnum.2011.01.002 **Published:** MAY 2011

ISSN: 0168-9274

Record 14 of 495

Title: Hierarchical error estimates for the energy functional in obstacle problems

Author(s): Zou, QS (Zou, Qingsong); Veese, A (Veese, Andreas); Kornhuber, R (Kornhuber, Ralf); Graser, C (Graeser, Carsten)

Source: NUMERISCHE MATHEMATIK **Volume:** 117 **Issue:** 4 **Pages:** 653-677 **DOI:** 10.1007/s00211-011-0364-5 **Published:** APR 2011

ISSN: 0029-599X

Record 15 of 495

Title: Decay rates of adaptive finite elements with Dorfler marking

Author(s): Kreuzer, C (Kreuzer, Christian); Siebert, KG (Siebert, Kunibert G.)

Source: NUMERISCHE MATHEMATIK **Volume:** 117 **Issue:** 4 **Pages:** 679-716 **DOI:** 10.1007/s00211-010-0324-5 **Published:** APR 2011

ISSN: 0029-599X

Record 16 of 495

Title: Efficient and reliable hierarchical error estimates for an elliptic obstacle problem

Author(s): Zou, QS (Zou, Qingsong)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 61 **Issue:** 3 **Pages:** 344-355 **DOI:** 10.1016/j.apnum.2010.10.010 **Published:** MAR 2011

ISSN: 0168-9274

Record 17 of 495

Title: A dynamic traffic assignment model for a continuum transportation system

Author(s): Jiang, YQ (Jiang, Yanqun); Wong, SC (Wong, S. C.); Ho, HW (Ho, H. W.); Zhang, P (Zhang, Peng); Liu, RX (Liu, Ruxun); Sumalee, A (Sumalee, Agachai)

Source: TRANSPORTATION RESEARCH PART B-METHODOLOGICAL **Volume:** 45 **Issue:** 2 **Pages:** 343-363 **DOI:** 10.1016/j.trb.2010.07.003 **Published:** FEB 2011

ISSN: 0191-2615

Record 18 of 495

Title: A FAST ITERATIVE METHOD FOR SOLVING THE EIKONAL EQUATION ON TRIANGULATED SURFACES

Author(s): Fu, ZS (Fu, Zhisong); Jeong, WK (Jeong, Won-Ki); Pan, YS (Pan, Yongsheng); Kirby, RM (Kirby, Robert M.); Whitaker, RT (Whitaker, Ross T.)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 33 **Issue:** 5 **Pages:** 2468-2488 **DOI:** 10.1137/100788951 **Published:** 2011

ISSN: 1064-8275

Record 19 of 495

Title: MULTIGRID SMOOTHERS FOR ULTRAPARALLEL COMPUTING

Author(s): Baker, AH (Baker, Allison H.); Falgout, RD (Falgout, Robert D.); Kolev, TV (Kolev, Tzanio V.); Yang, UM (Yang, Ulrike Meier)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 33 **Issue:** 5 **Pages:** 2864-2887 **Published:** 2011

ISSN: 1064-8275

Record 20 of 495

Title: Towards a General Error Theory of the Trapezoidal Rule

Author(s): Waldvogel, J (Waldvogel, Joerg)

Editor(s): Gautschi W; Mastroianni G; Rassias TM

Source: APPROXIMATION AND COMPUTATION: IN HONOR OF GRADIMIR V. MILOVANOVIC **Book Series:**

Springer Series in Optimization and Its Applications **Volume:** 42 **Pages:** 267-282 **DOI:** 10.1007/978-1-4419-6594-3_17 **Published:** 2011

Conference: 36th International Conference on Metallurgical Coatings and Thin Films San Diego, CA APR 27-MAY 01, 2009 Amer Vacuum Soc, Adv Surface Engrn Div

Conference Title: 36th International Conference on Metallurgical Coatings and Thin Films

Conference Date: APR 27-MAY 01, 2009

Conference Location: San Diego, CA

Conference Sponsor(s): Amer Vacuum Soc, Adv Surface Engrn Div

ISSN: 1931-6828

ISBN: 978-1-4419-6593-6

Record 21 of 495

Title: SPACE-TIME ADAPTIVE WAVELET METHODS FOR OPTIMAL CONTROL PROBLEMS CONSTRAINED BY PARABOLIC EVOLUTION EQUATIONS

Author(s): Gunzburger, MD (Gunzburger, Max D.); Kunoth, A (Kunoth, Angela)

Source: SIAM JOURNAL ON CONTROL AND OPTIMIZATION **Volume:** 49 **Issue:** 3 **Pages:** 1150-1170 **DOI:** 10.1137/100806382 **Published:** 2011

ISSN: 0363-0129

Record 22 of 495

Title: A Near-Optimal Hierarchical Estimate Based Adaptive Finite Element Method for Obstacle Problems

Author(s): Zou, QS (Zou, Qingsong)

Editor(s): Huang YQ; Kornhuber R; Widlund O; Xu JC

Source: DOMAIN DECOMPOSITION METHODS IN SCIENCE AND ENGINEERING XIX **Book Series:** Lecture Notes in Computational Science and Engineering **Volume:** 78 **Pages:** 317-324 **DOI:** 10.1007/978-3-642-11304-8_36 **Published:** 2011

Conference: 19th International Conference on Domain Decomposition Xiangtan Univ, Sch Math & Comp Sci, Zhanjiajie, PEOPLES R CHINA AUG 17-22, 2009 Xiangtan Univ, Sch Math & Comp Sci Hunan Key Lab Comp & Simulat Sci & Engrn Xiangtan Univ, Inst Comp & Appl Math Natl Nat Sci Fdn China

Conference Title: 19th International Conference on Domain Decomposition

Conference Date: AUG 17-22, 2009

Conference Location: Zhanjiajie, PEOPLES R CHINA

Conference Sponsor(s): Hunan Key Lab Comp & Simulat Sci & Engrn, Xiangtan Univ, Inst Comp & Appl Math, Natl Nat Sci Fdn China

Conference Host: Xiangtan Univ, Sch Math & Comp Sci

ISSN: 1439-7358

ISBN: 978-3-642-11303-1

Record 23 of 495

Title: EFFICIENT AND RELIABLE HIERARCHICAL ERROR ESTIMATES FOR THE DISCRETIZATION ERROR OF ELLIPTIC OBSTACLE PROBLEMS

Author(s): Kornhuber, R (Kornhuber, Ralf); Zou, QS (Zou, Qingsong)

Source: MATHEMATICS OF COMPUTATION **Volume:** 80 **Issue:** 273 **Pages:** 69-88 **Article Number:** **Published:** JAN 2011

ISSN: 0025-5718

Record 24 of 495

Title: REMARKS ON "ON A GENERAL CLASS OF MULTIPOINT ROOT-FINDING METHODS OF HIGH COMPUTATIONAL EFFICIENCY"

Author(s): Petkovic, MS (Petkovic, Miodrag S.)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 49 **Issue:** 3 **Pages:** 1317-1319 **DOI:**

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Title: Line Search Multilevel Optimization as Computational Methods for Dense Optical Flow

Author(s): Kalmoun, EM (Kalmoun, El Mostafa); Garrido, L (Garrido, Luis); Caselles, V (Caselles, Vicent)

Source: SIAM JOURNAL ON IMAGING SCIENCES **Volume:** 4 **Issue:** 2 **Pages:** 695-722 **DOI:**

10.1137/100807405 **Published:** 2011

ISSN: 1936-4954

Record 26 of 495

Title: AUTOMATIC IMAGE COMPLETION WITH STRUCTURE PROPAGATION AND TEXTURE SYNTHESIS

Author(s): Chen, XW (Chen, Xiaowu); Zhou, B (Zhou, Bin); Xu, F (Xu, Fang); Zhao, QP (Zhao, Qiping)

Source: INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE

ENGINEERING **Volume:** 20 **Issue:** 8 **Pages:** 1097-1117 **DOI:** 10.1142/S0218194010005055 **Published:** DEC 2010

Conference: 16th International Conference Multimedia Modeling (MMM2010) SW Univ, Fac Comp Informat Sci, Chongqing, PEOPLES R CHINA JAN 06-08, 2010 SW Univ, Fac Comp Informat Sci Chongqing Sci & Technol Comm

Conference Title: 16th International Conference Multimedia Modeling (MMM2010)

Conference Date: JAN 06-08, 2010

Conference Location: Chongqing, PEOPLES R CHINA

Conference Sponsor(s): Chongqing Sci & Technol Comm

Conference Host: SW Univ, Fac Comp Informat Sci

ISSN: 0218-1940

Record 27 of 495

Title: An introduction to the topics presented at the conference "Approximation and extrapolation of convergent and divergent sequences and series" CIRM Luminy: September 28, 2009-October 2, 2009

Author(s): Weniger, EJ (Weniger, Ernst Joachim)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 60 **Issue:** 12 **Special Issue:** SI **Pages:** 1184-1187 **DOI:** 10.1016/j.apnum.2010.03.002 **Published:** DEC 2010

Conference: Conference on Approximation and extrapolation of Convergent and Divergent Sequences and Series Luminy, FRANCE SEP 28-OCT 02, 2009

Conference Title: Conference on Approximation and extrapolation of Convergent and Divergent Sequences and Series

Conference Date: SEP 28-OCT 02, 2009

Conference Location: Luminy, FRANCE

ISSN: 0168-9274

Record 28 of 495

Title: Study of a generalized Levin-Weniger convergence accelerator of numerical series: Particular cases and applications to multi-electron integrals in atomic physics

Author(s): Porras, I (Porras, Ignacio); Cordobes-Aguilar, F (Cordobes-Aguilar, Francisco)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 60 **Issue:** 12 **Special Issue:** SI **Pages:** 1371-1381 **DOI:** 10.1016/j.apnum.2010.07.002 **Published:** DEC 2010

Conference: Conference on Approximation and extrapolation of Convergent and Divergent Sequences and Series Luminy, FRANCE SEP 28-OCT 02, 2009

Conference Title: Conference on Approximation and extrapolation of Convergent and Divergent Sequences and Series

Conference Date: SEP 28-OCT 02, 2009

Conference Location: Luminy, FRANCE

ISSN: 0168-9274

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Title: A COARSENING ALGORITHM ON ADAPTIVE GRIDS BY NEWEST VERTEX BISECTION AND ITS APPLICATIONS

Author(s): Chen, L (Chen, Long); Zhang, CS (Zhang, Chensong)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 28 **Issue:** 6 **Pages:** 767-789 **DOI:** 10.4208/jcm.1004-m3172 **Published:** NOV 2010

ISSN: 0254-9409

Record 30 of 495

Title: Non-uniform multiresolution analysis with supercompact multiwavelets

Author(s): Amat, S (Amat, Sergio); Moncayo, M (Moncayo, Maria)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 235 **Issue:** 1 **Pages:** 334-340 **DOI:** 10.1016/j.cam.2010.05.013 **Published:** NOV 1 2010

ISSN: 0377-0427

Record 31 of 495

Title: Inpainting Assisted Self Recovery With Decreased Embedding Data

Author(s): Qian, ZX (Qian, Zhenxing); Feng, GR (Feng, Guorui)

Source: IEEE SIGNAL PROCESSING LETTERS **Volume:** 17 **Issue:** 11 **Pages:** 929-932 **DOI:** 10.1109/LSP.2010.2072991 **Published:** NOV 2010

ISSN: 1070-9908

Record 32 of 495

Title: A Comprehensive Framework for Image Inpainting

Author(s): Bugeau, A (Bugeau, Aurelie); Bertalmio, M (Bertalmio, Marcelo); Caselles, V (Caselles, Vicent); Sapiro, G (Sapiro, Guillermo)

Source: IEEE TRANSACTIONS ON IMAGE PROCESSING **Volume:** 19 **Issue:** 10 **Pages:** 2634-2645 **DOI:** 10.1109/TIP.2010.2049240 **Published:** OCT 2010

ISSN: 1057-7149

Record 33 of 495

Title: Variational optic flow on the Sony PlayStation 3 Accurate dense flow fields for real-time applications

Author(s): Gwosdek, P (Gwosdek, Pascal); Bruhn, A (Bruhn, Andres); Weickert, J (Weickert, Joachim)

Source: JOURNAL OF REAL-TIME IMAGE PROCESSING **Volume:** 5 **Issue:** 3 **Pages:** 163-177 **DOI:** 10.1007/s11554-009-0132-2 **Published:** SEP 2010

ISSN: 1861-8200

Record 34 of 495

Title: Symplectic schemes for highly oscillatory Hamiltonian systems with varying fast frequencies

Author(s): Dobson, M (Dobson, Matthew); Le Bris, C (Le Bris, Claude); Legoll, F (Legoll, Frederic)

Source: COMPTES RENDUS MATHEMATIQUE **Volume:** 348 **Issue:** 17-18 **Pages:** 1033-1038 **DOI:** 10.1016/j.crma.2010.08.005 **Published:** SEP 2010

ISSN: 1631-073X

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Title: A hybrid variational front tracking-level set mesh generator for problems exhibiting large deformations and topological changes

Author(s): Nochetto, RH (Nochetto, Ricardo H.); Walker, SW (Walker, Shawn W.)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 229 **Issue:** 18 **Pages:** 6243-6269 **DOI:** 10.1016/j.jcp.2010.04.035 **Published:** SEP 1 2010

ISSN: 0021-9991

Record 36 of 495

Title: Derivatives with respect to metrics and applications: subgradient marching algorithm

Author(s): Benmansour, F (Benmansour, F.); Carlier, G (Carlier, G.); Peyre, G (Peyre, G.); Santambrogio, F (Santambrogio, F.)

Source: NUMERISCHE MATHEMATIK **Volume:** 116 **Issue:** 3 **Pages:** 357-381 **DOI:** 10.1007/s00211-010-0305-8 **Published:** SEP 2010

ISSN: 0029-599X

Record 37 of 495

Title: Adaptive FEM-BEM coupling with a Schur complement error indicator

Author(s): Krebs, A (Krebs, Andreas); Maischak, M (Maischak, Matthias); Stephan, EP (Stephan, Ernst P.)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 60 **Issue:** 8 **Pages:** 798-808 **DOI:** 10.1016/j.apnum.2010.04.004 **Published:** AUG 2010

ISSN: 0168-9274

Record 38 of 495

Title: Convergence of simple adaptive Galerkin schemes based on h-h/2 error estimators

Author(s): Ferraz-Leite, S (Ferraz-Leite, S.); Ortner, C (Ortner, C.); Praetorius, D (Praetorius, D.)

Source: NUMERISCHE MATHEMATIK **Volume:** 116 **Issue:** 2 **Pages:** 291-316 **DOI:** 10.1007/s00211-010-0292-9 **Published:** AUG 2010

ISSN: 0029-599X

Record 39 of 495

Title: Mixed quantum-classical dynamics with time-dependent external fields: A time-dependent density-functional-theory approach

Author(s): Tavernelli, I (Tavernelli, Ivano); Curchod, BFE (Curchod, Basile F. E.); Rothlisberger, U (Rothlisberger, Ursula)

Source: PHYSICAL REVIEW A **Volume:** 81 **Issue:** 5 **Article Number:** 052508 **DOI:** 10.1103/PhysRevA.81.052508 **Published:** MAY 2010

ISSN: 1050-2947

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Title: Accurate Computation of the MGF of the Lognormal Distribution and its Application to Sum of Lognormals

Author(s): Tellambura, C (Tellambura, C.); Senaratne, D (Senaratne, D.)

Source: IEEE TRANSACTIONS ON COMMUNICATIONS **Volume:** 58 **Issue:** 5 **Pages:** 1568-1577 **DOI:** 10.1109/TCOMM.2010.05.080640 **Published:** MAY 2010

ISSN: 0090-6778

Record 41 of 495

Title: Lax-Hopf Based Incorporation of Internal Boundary Conditions Into Hamilton-Jacobi Equation. Part II: Computational Methods

Author(s): Claudel, CG (Claudel, Christian G.); Bayen, AM (Bayen, Alexandre M.)

Source: IEEE TRANSACTIONS ON AUTOMATIC CONTROL **Volume:** 55 **Issue:** 5 **Pages:** 1158-1174 **DOI:** 10.1109/TAC.2010.2045439 **Published:** MAY 2010

ISSN: 0018-9286

Record 42 of 495

Title: Bessel, sine and cosine functions and extrapolation methods for computing molecular multi-center integrals

Author(s): Safouhi, H (Safouhi, Hassan)

Source: NUMERICAL ALGORITHMS **Volume:** 54 **Issue:** 1 **Pages:** 141-167 **DOI:** 10.1007/s11075-009-0326-

Record 43 of 495

Title: GAUSSIAN QUADRATURE FOR SUMS: A RAPIDLY CONVERGENT SUMMATION SCHEME

Author(s): Monien, H (Monien, H.)

Source: MATHEMATICS OF COMPUTATION **Volume:** 79 **Issue:** 270 **Pages:** 857-869 **Article Number:**
Published: APR 2010

ISSN: 0025-5718

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Title: New reconstruction method for intermediate views from multiple views

Author(s): Zhang, Q (Zhang, Q.); An, P (An, P.); Zhang, ZY (Zhang, Z-Y); Wang, H (Wang, H.); Wu, YF (Wu, Y-F);
Jiang, GY (Jiang, G-Y)

Source: IMAGING SCIENCE JOURNAL **Volume:** 58 **Issue:** 2 **Pages:** 89-95 **DOI:**
10.1179/136821909X12581187859853 **Published:** APR 2010

ISSN: 1368-2199

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Title: INTEGRATORS FOR HIGHLY OSCILLATORY HAMILTONIAN SYSTEMS: AN HOMOGENIZATION APPROACH

Author(s): Le Bris, C (Le Bris, Claude); Legoll, F (Legoll, Frederic)

Source: DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B **Volume:** 13 **Issue:** 2 **Pages:** 347-373 **DOI:** 10.3934/dcdsb.2010.13.347 **Published:** MAR 2010

ISSN: 1531-3492

Record 46 of 495

Title: NONINTRUSIVE AND STRUCTURE PRESERVING MULTISCALE INTEGRATION OF STIFF ODEs, SDEs, AND HAMILTONIAN SYSTEMS WITH HIDDEN SLOW DYNAMICS VIA FLOW AVERAGING

Author(s): Tao, ML (Tao, Molei); Owhadi, H (Owhadi, Houman); Marsden, JE (Marsden, Jerrold E.)

Source: MULTISCALE MODELING & SIMULATION **Volume:** 8 **Issue:** 4 **Pages:** 1269-1324 **DOI:**
10.1137/090771648 **Published:** 2010

ISSN: 1540-3459

Record 47 of 495

Title: From Box Filtering to Fast Explicit Diffusion

Author(s): Grewenig, S (Grewenig, Sven); Weickert, J (Weickert, Joachim); Bruhn, A (Bruhn, Andres)

Editor(s): Goesele M; Roth S; Kuijper A; Schiele B; Schindler K

Source: PATTERN RECOGNITION **Book Series:** Lecture Notes in Computer Science **Volume:** 6376 **Pages:** 533-542 **Published:** 2010

Conference: 32nd Annual Symposium of the German-Association-for-Pattern-Recognition Darmstadt, GERMANY SEP 22-24, 2010 Daimler Bosch MVTec Software GmbH ISRA Vision Toyota Microsoft Res

Conference Title: 32nd Annual Symposium of the German-Association-for-Pattern-Recognition

Conference Date: SEP 22-24, 2010

Conference Location: Darmstadt, GERMANY

Conference Sponsor(s): Daimler, Bosch, MVTec Software GmbH, ISRA Vision, Toyota, Microsoft Res

ISSN: 0302-9743

ISBN: 978-3-642-15985-5

Record 48 of 495

Title: Accurate and Reliable Computing in Floating-Point Arithmetic

Author(s): Rump, SM (Rump, Siegfried M.)

Editor(s): Fukuda K; VanDerHoeven J; Joswig M; Takayama N

Source: MATHEMATICAL SOFTWARE - ICMS 2010 **Book Series:** Lecture Notes in Computer Science **Volume:** 6327 **Pages:** 105-108 **Published:** 2010

Conference: 3rd International Congress on Mathematical Software Kobe, JAPAN SEP 13-17, 2010 Kobe Univ, Dept Math Kobe Univ, Fac Sci Japan Soc Promot Sci Japan Sci & Technol Agcy

Conference Title: 3rd International Congress on Mathematical Software

Conference Date: SEP 13-17, 2010

Conference Location: Kobe, JAPAN

Conference Sponsor(s): Kobe Univ, Dept Math, Kobe Univ, Fac Sci, Japan Soc Promot Sci, Japan Sci & Technol Agcy

ISSN: 0302-9743

ISBN: 978-3-642-15581-9

Record 49 of 495

Title: Hierarchical error estimates for finite volume approximation solution of elliptic equations

Author(s): Zou, QS (Zou, Qingsong)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 60 **Issue:** 1-2 **Pages:** 142-153 **DOI:** 10.1016/j.apnum.2009.10.006 **Published:** JAN-FEB 2010

ISSN: 0168-9274

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Title: A Parallel Algebraic Multigrid Solver on Graphics Processing Units

Author(s): Haase, G (Haase, Gundolf); Liebmann, M (Liebmann, Manfred); Douglas, CC (Douglas, Craig C.); Plank, G (Plank, Gernot)

Editor(s): Zhang W; Chen ZX; Douglas CC; Tong WQ

Source: HIGH PERFORMANCE COMPUTING AND APPLICATIONS **Book Series:** Lecture Notes in Computer Science **Volume:** 5938 **Pages:** 38-47 **Published:** 2010

Conference: 2nd International Conference on High Performance Computing and Applications Shanghai, PEOPLES R CHINA AUG 10-12, 2009 Sch Comp Engn & Sci High Performance Comp Ctr Shanghai Univ Shanghai Jiao Tong Univ Xian Jiao Tong Univ Univ Calgary

Conference Title: 2nd International Conference on High Performance Computing and Applications

Conference Date: AUG 10-12, 2009

Conference Location: Shanghai, PEOPLES R CHINA

Conference Sponsor(s): Sch Comp Engn & Sci, High Performance Comp Ctr, Shanghai Univ, Shanghai Jiao Tong Univ, Xian Jiao Tong Univ, Univ Calgary

ISSN: 0302-9743

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Title: Applications of Mixed-Quantum/Classical Trajectories to the Study of Nuclear Quantum Effects in Chemical Reactions and Vibrational Relaxation Processes

Author(s): Pierdominici-Sottile, G (Pierdominici-Sottile, Gustavo); Alberti, SF (Fernandez Alberti, Sebastian); Palma, J (Palma, Juliana)

Editor(s): Sabin JR; Brandas E; Canuto S

Source: ADVANCES IN QUANTUM CHEMISTRY, VOL 59: COMBINING QUANTUM MECHANICS AND MOLECULAR MECHANICS - SOME RECENT PROGRESSES IN QM/MM METHODS **Book Series:** Advances in Quantum Chemistry **Volume:** 59 **Pages:** 247-282 **DOI:** 10.1016/S0065-3276(10)59008-7 **Published:** 2010

ISSN: 0065-3276

ISBN: 978-0-12-380898-1

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Title: From Functional Analysis to Iterative Methods

Author(s): Kirby, RC (Kirby, Robert C.)

Source: SIAM REVIEW **Volume:** 52 **Issue:** 2 **Pages:** 269-293 **DOI:** 10.1137/070706914 **Published:** 2010

ISSN: 0036-1445

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Title: NUMERICAL ALGORITHMS FOR PERSPECTIVE SHAPE FROM SHADING

Author(s): Breuss, M (Breuss, Michael); Cristiani, E (Cristiani, Emiliano); Durou, JD (Durou, Jean-Denis); Falcone, M (Falcone, Maurizio); Vogel, O (Vogel, Oliver)

Source: KYBERNETIKA **Volume:** 46 **Issue:** 2 **Special Issue:** SI **Pages:** 207-225 **Published:** 2010

ISSN: 0023-5954

Record 54 of 495

Title: EXEMPLAR-BASED INPAINTING FROM A VARIATIONAL POINT OF VIEW

Author(s): Aujol, JF (Aujol, Jean-Francois); Ladjal, S (Ladjal, Said); Masnou, S (Masnou, Simon)

Source: SIAM JOURNAL ON MATHEMATICAL ANALYSIS **Volume:** 42 **Issue:** 3 **Pages:** 1246-1285 **DOI:** 10.1137/080743883 **Published:** 2010

ISSN: 0036-1410

Record 55 of 495

Title: MOMENT ANALYSIS OF ANGULAR APPROXIMATION METHODS FOR TIME-DEPENDENT RADIATION TRANSPORT

Author(s): Densmore, JD (Densmore, Jeffery D.); McClarren, RG (McClarren, Ryan G.)

Source: TRANSPORT THEORY AND STATISTICAL PHYSICS **Volume:** 39 **Issue:** 2-4 **Pages:** 192-233 **DOI:** 10.1080/00411450.2010.533742 **Published:** 2010

ISSN: 0041-1450

Record 56 of 495

Title: ADAPTIVE FINITE ELEMENT METHODS ON QUADRILATERAL MESHES WITHOUT HANGING NODES

Author(s): Zhao, XY (Zhao, Xuying); Mao, SP (Mao, Shipeng); Shi, ZC (Shi, Zhongci)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 32 **Issue:** 4 **Pages:** 2099-2120 **DOI:** 10.1137/090772022 **Published:** 2010

ISSN: 1064-8275

Record 57 of 495

Title: AN ADAPTIVE WAVELET METHOD FOR THE CHEMICAL MASTER EQUATION

Author(s): Jahnke, T (Jahnke, Tobias)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 31 **Issue:** 6 **Pages:** 4373-4394 **DOI:** 10.1137/080742324 **Published:** 2010

ISSN: 1064-8275

Record 58 of 495

Title: Cascadic multilevel methods for ill-posed problems

Author(s): Reichel, L (Reichel, Lothar); Shyshkov, A (Shyshkov, Andriy)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 233 **Issue:** 5 **Pages:** 1314-1325 **DOI:** 10.1016/j.cam.2009.03.019 **Published:** JAN 1 2010

ISSN: 0377-0427

Record 59 of 495

Title: Adaptive Finite Element Discretisation of the Spindle Grinding Wheel System

Author(s): Blum, H (Blum, H.); Rademacher, A (Rademacher, A.)

Editor(s): Fitt AD; Norbury J; Ockendon H; Wilson RE

Source: PROGRESS IN INDUSTRIAL MATHEMATICS AT ECMI 2008 **Book Series:** Mathematics in Industry **Volume:** 15 **Pages:** 499-504 **DOI:** 10.1007/978-3-642-12110-4_78 **Published:** 2010

Conference: 15th European Conference on Mathematics for Industry Univ Coll London, London, ENGLAND JUN 30-JUL 04, 2008 Univ Coll London

Conference Title: 15th European Conference on Mathematics for Industry

Conference Date: JUN 30-JUL 04, 2008

Conference Location: London, ENGLAND

Conference Host: Univ Coll London

ISBN: 978-3-642-12109-8

Record 60 of 495

Title: Vibrational frequencies in Car-Parrinello molecular dynamics

Author(s): Ong, SW (Ong, Sheau Wei); Tok, ES (Tok, Eng Soon); Kang, HC (Kang, Hway Chuan)

Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS **Volume:** 12 **Issue:** 45 **Pages:** 14960-14966 **DOI:** 10.1039/c0cp00411a **Published:** 2010

ISSN: 1463-9076

Record 61 of 495

Title: Fast Image Restoration Algorithm Based on ECMG-PDE

Author(s): Xie, MH (Xie, Meihua); Deng, LX (Deng, Lixin)

Editor(s): Thomas L; Jin G; Sun L

Source: PROCEEDINGS OF 2010 INTERNATIONAL SYMPOSIUM ON IMAGE ANALYSIS AND SIGNAL PROCESSING **Pages:** 46-49 **Published:** 2010

Conference: International Symposium on Image Analysis and Signal Processing Xiamen, PEOPLES R CHINA APR 11-12, 2010 So Polytechn State Univ Zhejiang Univ, Coll Comp Sci & Technol Xiamen Univ, Sch Informat Sci & Technol Fuzhou Univ, coll Math & Comp Sci Fujian Agr & Forestry Univ, Coll Comp & Informat Sci Zhejiang Univ Technol, Software Coll Taizhou Univ, Inst Comp Applicat Huaqiao Univ, Coll Comp Sci & Technol Jacksonville State Univ, Coll Comp Sci & Math Amer Scholars Press Soc Taizhou Engineers

Conference Title: International Symposium on Image Analysis and Signal Processing

Conference Date: APR 11-12, 2010

Conference Location: Xiamen, PEOPLES R CHINA

Conference Sponsor(s): So Polytechn State Univ, Zhejiang Univ, Coll Comp Sci & Technol, Xiamen Univ, Sch

Informat Sci & Technol, Fuzhou Univ, coll Math & Comp Sci, Fujian Agr & Forestry Univ, Coll Comp & Informat Sci, Zhejiang Univ Technol, Software Coll, Taizhou Univ, Inst Comp Applicat, Huaqiao Univ, Coll Comp Sci & Technol, Jacksonville State Univ, Coll Comp Sci & Math, Amer Scholars Press, Soc Taizhou Engineers

ISBN: 978-0-9798471-8-9

Record 62 of 495

Title: PYRAMID MODEL BASED DOWN-SAMPLING FOR IMAGE INPAINTING

Author(s): Wang, MH (Wang, Miaohui); Yan, B (Yan, Bo); Gharavi, H (Gharavi, Hamid)

Book Group Author(s): IEEE

Source: 2010 IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING **Book Series:** IEEE International Conference on Image Processing ICIP **Pages:** 429-432 **DOI:** 10.1109/ICIP.2010.5653469 **Published:** 2010

Conference: IEEE International Conference on Image Processing Hong Kong, PEOPLES R CHINA SEP 26-29, 2010
IEEE IEEE Signal Process Soc

Conference Title: IEEE International Conference on Image Processing

Conference Date: SEP 26-29, 2010

Conference Location: Hong Kong, PEOPLES R CHINA

Conference Sponsor(s): IEEE, IEEE Signal Process Soc

ISSN: 1522-4880

ISBN: 978-1-4244-7994-8

Record 63 of 495

Title: New formulae for higher order derivatives and applications

Author(s): Slevinsky, RM (Slevinsky, Richard M.); Safouhi, H (Safouhi, Hassan)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 233 **Issue:** 2 **Pages:** 405-419 **DOI:** 10.1016/j.cam.2009.07.038 **Published:** NOV 15 2009

ISSN: 0377-0427

Record 64 of 495

Title: Time-parallel multiscale/multiphysics framework

Author(s): Frantziskonis, G (Frantziskonis, G.); Muralidharan, K (Muralidharan, K.); Deymier, P (Deymier, P.); Simunovic, S (Simunovic, S.); Nukala, P (Nukala, P.); Pannala, S (Pannala, S.)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 228 **Issue:** 21 **Pages:** 8085-8092 **DOI:** 10.1016/j.jcp.2009.07.035 **Published:** NOV 2009

ISSN: 0021-9991

Record 65 of 495

Title: Numerical evaluation of Goursat's infinite integral

Author(s): Hatano, Y (Hatano, Yasuyo); Ninomiya, I (Ninomiya, Ichizo); Sugiura, H (Sugiura, Hiroshi); Hasegawa, T (Hasegawa, Takemitsu)

Source: NUMERICAL ALGORITHMS **Volume:** 52 **Issue:** 2 **Pages:** 213-224 **DOI:** 10.1007/s11075-009-9265-4 **Published:** OCT 2009

ISSN: 1017-1398

Record 66 of 495

Title: Space adaptive finite element methods for dynamic Signorini problems

Author(s): Blum, H (Blum, Heribert); Rademacher, A (Rademacher, Andreas); Schroder, A (Schroeder, Andreas)

Source: COMPUTATIONAL MECHANICS **Volume:** 44 **Issue:** 4 **Pages:** 481-491 **DOI:** 10.1007/s00466-009-0385-4 **Published:** SEP 2009

ISSN: 0178-7675

Record 67 of 495

Title: Local Multigrid in $H(\text{curl})$

Author(s): Hiptmair, R (Hiptmair, Ralf); Zheng, WY (Zheng, Weiyang)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 27 **Issue:** 5 **Pages:** 573-603 **DOI:** 10.4208/jcm.2009.27.5.012 **Published:** SEP 2009

ISSN: 0254-9409

Record 68 of 495

Title: On the Ehrenfest theorem of quantum mechanics

Author(s): Friesecke, G (Friesecke, Gero); Koppen, M (Koppen, Mario)

Source: JOURNAL OF MATHEMATICAL PHYSICS **Volume:** 50 **Issue:** 8 **Article Number:** 082102 **DOI:** 10.1063/1.3191679 **Published:** AUG 2009

ISSN: 0022-2488

Record 69 of 495

Title: Curvature-based anisotropic geodesic distance computation for parametric and implicit surfaces

Author(s): Seong, JK (Seong, Joon-Kyung); Jeong, WK (Jeong, Won-Ki); Cohen, E (Cohen, Elaine)

Source: VISUAL COMPUTER **Volume:** 25 **Issue:** 8 **Pages:** 743-755 **DOI:** 10.1007/s00371-009-0362-0 **Published:** AUG 2009

Conference: IEEE International Conference on Shape Modeling and Applications Stony Brook, NY JUN 04-06, 2008
IEEE Comp Soc, VGTC ACM SIGGRAPH EUROGRAPHICS Comp Graph Soc

Conference Title: IEEE International Conference on Shape Modeling and Applications

Conference Date: JUN 04-06, 2008

Conference Location: Stony Brook, NY

Conference Sponsor(s): IEEE Comp Soc, VGTC, ACM SIGGRAPH, EUROGRAPHICS, Comp Graph Soc

ISSN: 0178-2789

Record 70 of 495

Title: Remarks on the $O(N)$ implementation of the fast marching method

Author(s): Rasch, C (Rasch, Christian); Satzger, T (Satzger, Thomas)

Source: IMA JOURNAL OF NUMERICAL ANALYSIS **Volume:** 29 **Issue:** 3 **Pages:** 806-813 **DOI:** 10.1093/imanum/drm028 **Published:** JUL 2009

ISSN: 0272-4979

Record 71 of 495

Title: A second-order pruning step for verified global optimization

Author(s): Schnurr, M (Schnurr, Marco)

Source: JOURNAL OF GLOBAL OPTIMIZATION **Volume:** 44 **Issue:** 3 **Pages:** 349-374 **DOI:** 10.1007/s10898-008-9331-9 **Published:** JUL 2009

ISSN: 0925-5001

Record 72 of 495

Title: FAst STatistics for weak Lensing (FASTLens): fast method for weak lensing statistics and map making

Author(s): Pires, S (Pires, S.); Starck, JL (Starck, J. -L.); Amara, A (Amara, A.); Teyssier, R (Teyssier, R.); Refregier, A (Refregier, A.); Fadili, J (Fadili, J.)

Source: MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY **Volume:** 395 **Issue:** 3 **Pages:** 1265-1279 **DOI:** 10.1111/j.1365-2966.2009.14625.x **Published:** MAY 21 2009

ISSN: 0035-8711

Record 73 of 495

Title: $L(2)$ -ERROR OF EXTRAPOLATION CASCADIC MULTIGRID (EXCMG)

Author(s): Chen, CM (Chen Chuanmiao); Hu, HL (Hu Hongling); Xie, ZQ (Xie Ziqing); Li, CL (Li Chenliang)
Source: ACTA MATHEMATICA SCIENTIA **Volume:** 29 **Issue:** 3 **Pages:** 539-551 **Published:** MAY 2009
ISSN: 0252-9602

Record 74 of 495

Title: Standard and Economical Cascadic Multigrid Methods for the Mortar Finite Element Methods

Author(s): Xu, XJ (Xu, Xuejun); Chen, WB (Chen, Wenbin)

Source: NUMERICAL MATHEMATICS-THEORY METHODS AND APPLICATIONS **Volume:** 2 **Issue:** 2 **Pages:** 180-201 **Published:** MAY 2009

ISSN: 1004-8979

Record 75 of 495

Title: IA-FEMesh: An open-source, interactive, multiblock approach to anatomic finite element model development

Author(s): Grosland, NM (Grosland, Nicole M.); Shivanna, KH (Shivanna, Kiran H.); Magnotta, VA (Magnotta, Vincent A.); Kallemeyn, NA (Kallemeyn, Nicole A.); DeVries, NA (DeVries, Nicole A.); Tadepalli, SC (Tadepalli, Srinivas C.); Lisle, C (Lisle, Curtis)

Source: COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE **Volume:** 94 **Issue:** 1 **Pages:** 96-107 **DOI:** 10.1016/j.cmpb.2008.12.003 **Published:** APR 2009

ISSN: 0169-2607

Record 76 of 495

Title: Modified Ehrenfest Formalism for Efficient Large-Scale ab initio Molecular Dynamics

Author(s): Andrade, X (Andrade, Xavier); Castro, A (Castro, Alberto); Zueco, D (Zueco, David); Alonso, JL (Alonso, J. L.); Echenique, P (Echenique, Pablo); Falceto, F (Falceto, Fernando); Rubio, A (Rubio, Angel)

Source: JOURNAL OF CHEMICAL THEORY AND COMPUTATION **Volume:** 5 **Issue:** 4 **Pages:** 728-742 **DOI:** 10.1021/ct800518j **Published:** APR 2009

ISSN: 1549-9618

Record 77 of 495

Title: What Does it Mean that PRIMES is in P? Popularization and Distortion Revisited

Author(s): Miller, B (Miller, Boaz)

Source: SOCIAL STUDIES OF SCIENCE **Volume:** 39 **Issue:** 2 **Pages:** 257-288 **DOI:** 10.1177/0306312708101131 **Published:** APR 2009

ISSN: 0306-3127

Record 78 of 495

Title: A stopping criterion for the conjugate gradient algorithm in the framework of anisotropic adaptive finite elements

Author(s): Picasso, M (Picasso, M.)

Source: COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING **Volume:** 25 **Issue:** 4 **Pages:** 339-355 **DOI:** 10.1002/cnm.1120 **Published:** APR 2009

ISSN: 1069-8299

Record 79 of 495

Title: Rate constants calculation with a simple mixed quantum/classical implementation of the flux-flux correlation function method

Author(s): Palma, J (Palma, Juliana)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 130 **Issue:** 12 **Article Number:** 124119 **DOI:** 10.1063/1.3097134 **Published:** MAR 28 2009

ISSN: 0021-9606

Record 80 of 495

Title: Static and Dynamical Properties of Liquid Water from First Principles by a Novel Car-Parrinello-like Approach
Author(s): Kuhne, TD (Kuehne, Thomas D.); Krack, M (Krack, Matthias); Parrinello, M (Parrinello, Michele)
Source: JOURNAL OF CHEMICAL THEORY AND COMPUTATION **Volume:** 5 **Issue:** 2 **Pages:** 235-241 **DOI:** 10.1021/ct800417q **Published:** FEB 2009
ISSN: 1549-9618

Record 81 of 495

Title: Function classes for double exponential integration formulas
Author(s): Tanaka, K (Tanaka, Ken'ichiro); Sugihara, M (Sugihara, Masaaki); Murota, K (Murota, Kazuo); Mori, M (Mori, Masatake)
Source: NUMERISCHE MATHEMATIK **Volume:** 111 **Issue:** 4 **Pages:** 631-655 **DOI:** 10.1007/s00211-008-0195-1 **Published:** FEB 2009
ISSN: 0029-599X

Record 82 of 495

Title: HOW TO CHOOSE INTERPOLATION DATA IN IMAGES
Author(s): Belhachmi, Z (Belhachmi, Zakaria); Bucur, D (Bucur, Dorin); Burgeth, B (Burgeth, Bernhard); Weickert, J (Weickert, Joachim)
Source: SIAM JOURNAL ON APPLIED MATHEMATICS **Volume:** 70 **Issue:** 1 **Pages:** 333-352 **DOI:** 10.1137/080716396 **Published:** 2009
ISSN: 0036-1399

Record 83 of 495

Title: ASYMPTOTICS-BASED CI MODELS FOR ATOMS: PROPERTIES, EXACT SOLUTION OF A MINIMAL MODEL FOR LI TO NE, AND APPLICATION TO ATOMIC SPECTRA
Author(s): Friesecke, G (Friesecke, Gero); Goddard, BD (Goddard, Benjamin D.)
Source: MULTISCALE MODELING & SIMULATION **Volume:** 7 **Issue:** 4 **Pages:** 1876-1897 **DOI:** 10.1137/080736648 **Published:** 2009
ISSN: 1540-3459

Record 84 of 495

Title: Equation-Free Multiscale Computation: Algorithms and Applications
Author(s): Kevrekidis, IG (Kevrekidis, Ioannis G.); Samaey, G (Samaey, Giovanni)
Source: ANNUAL REVIEW OF PHYSICAL CHEMISTRY **Book Series:** Annual Review of Physical Chemistry **Volume:** 60 **Pages:** 321-344 **DOI:** 10.1146/annurev.physchem.59.032607.093610 **Published:** 2009
ISSN: 0066-426X
ISBN: 978-0-8243-1060-8

Record 85 of 495

Title: Geodesics in Shape Space via Variational Time Discretization
Author(s): Wirth, B (Wirth, Benedikt); Bar, L (Bar, Leah); Rumpf, M (Rumpf, Martin); Sapiro, G (Sapiro, Guillermo)
Editor(s): Cremers D; Boykov Y; Blake A; Schmidt FR
Source: ENERGY MINIMIZATION METHODS IN COMPUTER VISION AND PATTERN RECOGNITION, PROCEEDINGS **Book Series:** Lecture Notes in Computer Science **Volume:** 5681 **Pages:** 288-302 **Published:** 2009
Conference: 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition Univ Bonn, Bonn, GERMANY AUG 24-27, 2009 Univ Bonn Hausdorff Ctr Math
Conference Title: 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition
Conference Date: AUG 24-27, 2009
Conference Location: Bonn, GERMANY
Conference Sponsor(s): Hausdorff Ctr Math

Conference Host: Univ Bonn

ISSN: 0302-9743

ISBN: 978-3-642-03640-8

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Title: A Variational Framework for Non-local Image Inpainting

Author(s): Arias, P (Arias, Pablo); Caselles, V (Caselles, Vicent); Sapiro, G (Sapiro, Guillermo)

Editor(s): Cremers D; Boykov Y; Blake A; Schmidt FR

Source: ENERGY MINIMIZATION METHODS IN COMPUTER VISION AND PATTERN RECOGNITION, PROCEEDINGS **Book Series:** Lecture Notes in Computer Science **Volume:** 5681 **Pages:** 345-358 **Published:** 2009

Conference: 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition Univ Bonn, Bonn, GERMANY AUG 24-27, 2009 Univ Bonn Hausdorff Ctr Math

Conference Title: 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition

Conference Date: AUG 24-27, 2009

Conference Location: Bonn, GERMANY

Conference Sponsor(s): Hausdorff Ctr Math

Conference Host: Univ Bonn

ISSN: 0302-9743

ISBN: 978-3-642-03640-8

Record 87 of 495

Title: From a Single Point to a Surface Patch by Growing Minimal Paths

Author(s): Benmansour, F (Benmansour, Fethallah); Cohen, LD (Cohen, Laurent D.)

Editor(s): Tai XC; Morken K; Lysaker M; Lie KA

Source: SCALE SPACE AND VARIATIONAL METHODS IN COMPUTER VISION, PROCEEDINGS **Book Series:** Lecture Notes in Computer Science **Volume:** 5567 **Pages:** 648-659 **Published:** 2009

Conference: 2nd International Conference on Scale Space and Variational Methods in Computer Vision Voss, NORWAY JUN 01-05, 2009

Conference Title: 2nd International Conference on Scale Space and Variational Methods in Computer Vision

Conference Date: JUN 01-05, 2009

Conference Location: Voss, NORWAY

ISSN: 0302-9743

ISBN: 978-3-642-02255-5

Record 88 of 495

Title: Inpainting and Zooming Using Sparse Representations

Author(s): Fadili, MJ (Fadili, M. J.); Starck, JL (Starck, J. -L.); Murtagh, F (Murtagh, F.)

Source: COMPUTER JOURNAL **Volume:** 52 **Issue:** 1 **Pages:** 64-79 **DOI:** 10.1093/comjnl/bxm055 **Published:** JAN 2009

ISSN: 0010-4620

Record 89 of 495

Title: FINITE ELEMENT METHODS ON VERY LARGE, DYNAMIC TUBULAR GRID ENCODED IMPLICIT SURFACES

Author(s): Nemitz, O (Nemitz, Oliver); Nielsen, MB (Nielsen, Michael Bang); Rumpf, M (Rumpf, Martin); Whitaker, R (Whitaker, Ross)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 31 **Issue:** 3 **Pages:** 2258-2281 **DOI:** 10.1137/080718334 **Published:** 2009

ISSN: 1064-8275

Record 90 of 495

Title: MULTIGRID METHODS FOR OBSTACLE PROBLEMS

Author(s): Graser, C (Graeser, Carsten); Kornhuber, R (Kornhuber, Ralf)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 27 **Issue:** 1 **Pages:** 1-44 **Published:** JAN 2009

ISSN: 0254-9409

Record 91 of 495

Title: Simulation studies promote technological development of radiofrequency phased array hyperthermia

Author(s): Wust, P (Wust, P.); Seebass, M (Seebass, M.); Nadobny, J (Nadobny, J.); Deuflhard, P (Deuflhard, P.); Monich, G (Moenich, G.); Felix, R (Felix, R.)

Source: INTERNATIONAL JOURNAL OF HYPERTHERMIA **Volume:** 25 **Issue:** 7 **Pages:** 517-528 **DOI:** 10.3109/02656730903287832 **Published:** 2009

ISSN: 0265-6736

Record 92 of 495

Title: Global Optimization in Practice: State of the Art and Perspectives

Author(s): Pinter, JD (Pinter, Janos D.)

Editor(s): Gao DY; Sherali HD

Source: ADVANCES IN APPLIED MATHEMATICS AND GLOBAL OPTIMIZATION **Book Series:** Advances in Mechanics and Mathematics **Volume:** 17 **Pages:** 377-404 **DOI:** 10.1007/978-0-387-75714-8_11 **Published:** 2009

Conference: 1st International Conference on Complementarity, Duality, and Global Optimization Virginia Tech, Blacksburg, VA AUG 15-17, 2005 Virginia Tech

Conference Title: 1st International Conference on Complementarity, Duality, and Global Optimization

Conference Date: AUG 15-17, 2005

Conference Location: Blacksburg, VA

Conference Host: Virginia Tech

ISSN: 1571-8689

ISBN: 978-0-387-75713-1

Record 93 of 495

Title: Optimal algorithms for discretized partial differential equations

Author(s): Xu, JC (Xu, Jinchao)

Editor(s): Jeltsch R; Wanner G

Source: ICIAM 07: 6TH INTERNATIONAL CONGRESS ON INDUSTRIAL AND APPLIED MATHEMATICS **Pages:** 409-444 **Published:** 2009

Conference: 6th International Congress on Industrial and Applied Mathematics Zurich, SWITZERLAND JUL 16-20, 2007 SwissLife WA Gunther Media Rent IBM MathWorks Google LGT Visual Numerics Kanton Zurich Stade Zurich Stif Forder Mathemat Schweiz ETH Zurich, CoLab Euler Archive Basel Schweiz Math Gesell Novartis Swatch HILTI SBB CFF FFS Merck Sharp & Dohme Osterreich Akad Wissensch Embassy Switzerland Beijing DemoSCOPE Europcar EDP SWISSMEM Wolfram Res Zurich Tourism Int Math Union AMS Siam Australian & New Zealand Ind & Appl Math Canadian Appl & Ind Math Computat Methods Appl Math OMM ECMI EMIS Inst Math & Applicat Estonian Math Soc JSIAM IMACS MITACS Polish Math Soc SMAI CSIAM ISIAM Charles Univ Prague, Dept Math Osterreich Math Gesell Israel Math Union Ukrainian Math Soc SANUM Math Soc Macedonia FAPESP

Conference Title: 6th International Congress on Industrial and Applied Mathematics

Conference Date: JUL 16-20, 2007

Conference Location: Zurich, SWITZERLAND

Conference Sponsor(s): SwissLife, WA Gunther Media Rent, IBM, MathWorks, Google, LGT, Visual Numerics, Kanton Zurich, Stade Zurich, Stif Forder Mathemat Schweiz, ETH Zurich, CoLab, Euler Archive Basel, Schweiz Math Gesell, Novartis, Swatch, HILTI, SBB CFF FFS, Merck Sharp & Dohme, Osterreich Akad Wissensch, Embassy Switzerland Beijing, DemoSCOPE, Europcar, EDP, SWISSMEM, Wolfram Res, Zurich Tourism, Int Math Union, AMS, Siam, Australian & New Zealand Ind & Appl Math, Canadian Appl & Ind Math, Computat Methods Appl Math, OMM,

ECMI, EMIS, Inst Math & Applicat, Estonian Math Soc, JSIAM, IMACS, MITACS, Polish Math Soc, SMAI, CSIAM, ISIAM, Charles Univ Prague, Dept Math, Osterrich Math Gesell, Israel Math Union, Ukranian Math Soc, SANUM, Math Soc Macedonia, FAPESP

ISBN: 978-3-03719-056-2

Record 94 of 495

Title: COMBINING TEXTURE SYNTHESIS AND DIFFUSION FOR IMAGE INPAINTING

Author(s): Bugeau, A (Bugeau, Aurelie); Bertalmio, M (Bertalmio, Marcelo)

Editor(s): Ranchordas A; Araujo H

Source: VISAPP 2009: PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE ON COMPUTER VISION THEORY AND APPLICATIONS, VOL 1 **Pages:** 26-33 **Published:** 2009

Conference: 4th International Conference on Computer Vision Theory and Applications Lisbon, PORTUGAL FEB 05-08, 2009 Inst Syst & Technologies Informat, Control & Commun ACM SIGGRAPH

Conference Title: 4th International Conference on Computer Vision Theory and Applications

Conference Date: FEB 05-08, 2009

Conference Location: Lisbon, PORTUGAL

Conference Sponsor(s): Inst Syst & Technologies Informat, Control & Commun, ACM SIGGRAPH

ISBN: 978-989-8111-69-2

Record 95 of 495

Title: Curvature Regularity for Region-based Image Segmentation and Inpainting: A Linear Programming Relaxation

Author(s): Schoenemann, T (Schoenemann, Thomas); Kahl, F (Kahl, Fredrik); Cremers, D (Cremers, Daniel)

Book Group Author(s): IEEE

Source: 2009 IEEE 12TH INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV) **Book Series:** IEEE International Conference on Computer Vision **Pages:** 17-23 **DOI:** 10.1109/ICCV.2009.5459209 **Published:** 2009

Conference: 12th IEEE International Conference on Computer Vision Kyoto, JAPAN SEP 29-OCT 02, 2009 IEEE IEEE Comp Soc

Conference Title: 12th IEEE International Conference on Computer Vision

Conference Date: SEP 29-OCT 02, 2009

Conference Location: Kyoto, JAPAN

Conference Sponsor(s): IEEE, IEEE Comp Soc

ISSN: 1550-5499

ISBN: 978-1-4244-4419-9

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Title: Reconstructing Optical Flow Fields by Motion Inpainting

Author(s): Berkels, B (Berkels, Benjamin); Kondermann, C (Kondermann, Claudia); Garbe, C (Garbe, Christoph); Rumpf, M (Rumpf, Martin)

Editor(s): Cremers D; Boykov Y; Blake A; Schmidt FR

Source: ENERGY MINIMIZATION METHODS IN COMPUTER VISION AND PATTERN RECOGNITION, PROCEEDINGS **Book Series:** Lecture Notes in Computer Science **Volume:** 5681 **Pages:** 388-400 **Published:** 2009

Conference: 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition Univ Bonn, Bonn, GERMANY AUG 24-27, 2009 Univ Bonn Hausdorff Ctr Math

Conference Title: 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition

Conference Date: AUG 24-27, 2009

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Conference Sponsor(s): Hausdorff Ctr Math

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Record 97 of 495**Title:** Locally Parallel Textures Modeling with Adapted Hilbert Spaces**Author(s):** Maurel, P (Maurel, Pierre); Aujol, JF (Aujol, Jean-Francois); Peyre, G (Peyre, Gabriel)**Editor(s):** Cremers D; Boykov Y; Blake A; Schmidt FR**Source:** ENERGY MINIMIZATION METHODS IN COMPUTER VISION AND PATTERN RECOGNITION, PROCEEDINGS **Book Series:** Lecture Notes in Computer Science **Volume:** 5681 **Pages:** 429-442 **Published:** 2009**Conference:** 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition Univ Bonn, Bonn, GERMANY AUG 24-27, 2009 Univ Bonn Hausdorff Ctr Math**Conference Title:** 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition**Conference Date:** AUG 24-27, 2009**Conference Location:** Bonn, GERMANY**Conference Sponsor(s):** Hausdorff Ctr Math**Conference Host:** Univ Bonn**ISSN:** 0302-9743**ISBN:** 978-3-642-03640-8**Record 98 of 495****Title:** EFFICIENT NUMERICAL TECHNIQUES FOR PERSPECTIVE SHAPE FROM SHADING**Author(s):** Breuss, M (Breuss, Michael); Vogel, O (Vogel, Oliver); Weickert, J (Weickert, Joachim)**Editor(s):** Handlovicova A; Frolkovic P; Mikula K; Sevcovic D**Source:** ALGORITMY 2009: 18TH CONFERENCE ON SCIENTIFIC COMPUTING **Pages:** 11-20 **Published:** 2009**Conference:** 18th Conference on Scientific Computing Podbanske, SLOVAKIA MAR 15-20, 2008-2009**Conference Title:** 18th Conference on Scientific Computing**Conference Date:** MAR 15-20, 2008-2009**Conference Location:** Podbanske, SLOVAKIA**ISBN:** 978-80-227-3032-7**Record 99 of 495****Title:** Legendre-transform-based fast sweeping methods for static Hamilton-Jacobi equations on triangulated meshes**Author(s):** Kao, CY (Kao, Chiu-Yen); Osher, S (Osher, Stanley); Qian, JL (Qian, Jianliang)**Source:** JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 227 **Issue:** 24 **Pages:** 10209-10225 **DOI:** 10.1016/j.jcp.2008.08.016 **Published:** DEC 20 2008**ISSN:** 0021-9991**Record 100 of 495****Title:** THE CHEBOP SYSTEM FOR AUTOMATIC SOLUTION OF DIFFERENTIAL EQUATIONS**Author(s):** Driscoll, TA (Driscoll, Tobin A.); Bornemann, F (Bornemann, Folkmar); Trefethen, LN (Trefethen, Lloyd N.)**Source:** BIT NUMERICAL MATHEMATICS **Volume:** 48 **Issue:** 4 **Pages:** 701-723 **DOI:** 10.1007/s10543-008-0198-4 **Published:** DEC 2008**ISSN:** 0006-3835**Web of Knowledge**

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Title: Computer Aided Modeling of Polymer Reaction Engineering-The status of Predici, 1-Simulation

Author(s): Wulkow, M (Wulkow, Michael)

Source: MACROMOLECULAR REACTION ENGINEERING **Volume:** 2 **Issue:** 6 **Pages:** 461-494 **DOI:** 10.1002/mren.200800024 **Published:** NOV 21 2008

ISSN: 1862-832X

Record 102 of 495

Title: Theory of Breakdown Position Determination by Voltage- and Current-Ratio Methods

Author(s): Alam, MA (Alam, Muhammad Ashraful); Varghese, D (Varghese, Dhanoop); Kaczer, B (Kaczer, Ben)

Source: IEEE TRANSACTIONS ON ELECTRON DEVICES **Volume:** 55 **Issue:** 11 **Pages:** 3150-3158 **DOI:** 10.1109/TED.2008.2004483 **Published:** NOV 2008

ISSN: 0018-9383

Record 103 of 495

Title: Cascadic multigrid method for P(1)-nonconforming quadrilateral element

Author(s): Wang, C (Wang, C.); Huang, Z (Huang, Z.); Li, L (Li, L.)

Source: JOURNAL OF NUMERICAL MATHEMATICS **Volume:** 16 **Issue:** 3 **Pages:** 237-248 **DOI:** 10.1515/JNUM.2008.011 **Published:** NOV 2008

ISSN: 1570-2820

Record 104 of 495

Title: The Airy(1) Process is not the Limit of the Largest Eigenvalue in GOE Matrix Diffusion

Author(s): Bornemann, F (Bornemann, Folkmar); Ferrari, PL (Ferrari, Patrik L.); Prahofer, M (Prahofer, Michael)

Source: JOURNAL OF STATISTICAL PHYSICS **Volume:** 133 **Issue:** 3 **Pages:** 405-415 **DOI:** 10.1007/s10955-008-9621-0 **Published:** NOV 2008

ISSN: 0022-4715

Record 105 of 495

Title: Label-Setting Methods for Multimode Stochastic Shortest Path Problems on Graphs

Author(s): Vladimirovsky, A (Vladimirovsky, Alexander)

Source: MATHEMATICS OF OPERATIONS RESEARCH **Volume:** 33 **Issue:** 4 **Pages:** 821-838 **DOI:** 10.1287/moor.1080.0321 **Published:** NOV 2008

ISSN: 0364-765X

Record 106 of 495

Title: On the analyticity of Laguerre series

Author(s): Weniger, EJ (Weniger, Ernst Joachim)

Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL **Volume:** 41 **Issue:** 42 **Article Number:** 425207 **DOI:** 10.1088/1751-8113/41/42/425207 **Published:** OCT 24 2008

ISSN: 1751-8113

Record 107 of 495

Title: Parallel Algorithms for Approximation of Distance Maps on Parametric Surfaces

Author(s): Weber, O (Weber, Ofir); Devir, YS (Devir, Yohai S.); Bronstein, AM (Bronstein, Alexander M.); Bronstein, MM (Bronstein, Michael M.); Kimmel, R (Kimmel, Ron)

Source: ACM TRANSACTIONS ON GRAPHICS **Volume:** 27 **Issue:** 4 **Article Number:** 104 **DOI:** 10.1145/1409625.1409626 **Published:** OCT 2008
ISSN: 0730-0301

Record 108 of 495

Title: A control reduced primal interior point method for a class of control constrained optimal control problems

Author(s): Weiser, M (Weiser, Martin); Ganzler, T (Gaenzler, Tobias); Schiela, A (Schiela, Anton)

Source: COMPUTATIONAL OPTIMIZATION AND APPLICATIONS **Volume:** 41 **Issue:** 1 **Pages:** 127-145 **DOI:** 10.1007/s10589-007-9088-y **Published:** SEP 2008

ISSN: 0926-6003

Record 109 of 495

Title: Analysis of extrapolation cascadic multigrid method (EXCMG)

Author(s): Chen, CM (Chen ChuanMiao); Hu, HL (Hu HongLing); Xie, ZQ (Xie ZiQing); Li, CL (Li ChenLiang)

Source: SCIENCE IN CHINA SERIES A-MATHEMATICS **Volume:** 51 **Issue:** 8 **Pages:** 1349-1360 **DOI:** 10.1007/s11425-008-0119-7 **Published:** AUG 2008

Conference: 8th National Conference on Computational Mathematics Sichuan Univ, Sichuan, PEOPLES R CHINA OCT 25-29, 2007 Sichuan Univ

Conference Title: 8th National Conference on Computational Mathematics

Conference Date: OCT 25-29, 2007

Conference Location: Sichuan, PEOPLES R CHINA

Conference Host: Sichuan Univ

ISSN: 1006-9283

Record 110 of 495

Title: Cascadic multigrid methods for parabolic problems

Author(s): Du, Q (Du Qiang); Ming, PB (Ming PingBing)

Source: SCIENCE IN CHINA SERIES A-MATHEMATICS **Volume:** 51 **Issue:** 8 **Pages:** 1415-1439 **DOI:** 10.1007/s11425-008-0112-1 **Published:** AUG 2008

Conference: 8th National Conference on Computational Mathematics Sichuan Univ, Sichuan, PEOPLES R CHINA OCT 25-29, 2007 Sichuan Univ

Conference Title: 8th National Conference on Computational Mathematics

Conference Date: OCT 25-29, 2007

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Conference Host: Sichuan Univ

ISSN: 1006-9283

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Title: Image compression with anisotropic diffusion

Author(s): Galic, I (Galic, Irena); Weickert, J (Weickert, Joachim); Welk, M (Welk, Martin); Bruhn, A (Bruhn, Andres); Belyaev, A (Belyaev, Alexander); Seidel, HP (Seidel, Hans-Peter)

Source: JOURNAL OF MATHEMATICAL IMAGING AND VISION **Volume:** 31 **Issue:** 2-3 **Pages:** 255-269 **DOI:** 10.1007/s10851-008-0087-0 **Published:** JUL 2008

ISSN: 0924-9907

Record 112 of 495

Title: Laser-induced currents along molecular wire junctions

Author(s): Franco, I (Franco, Ignacio); Shapiro, M (Shapiro, Moshe); Brumer, P (Brumer, Paul)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 128 **Issue:** 24 **Article Number:** 244906 **DOI:** 10.1063/1.2940796 **Published:** JUN 28 2008

Record 113 of 495

Title: Femtosecond dynamics and laser control of charge transport in trans-polyacetylene

Author(s): Franco, I (Franco, Ignacio); Shapiro, M (Shapiro, Moshe); Brumer, P (Brumer, Paul)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 128 **Issue:** 24 **Article Number:** 244905 **DOI:** 10.1063/1.2940789 **Published:** JUN 28 2008

ISSN: 0021-9606

Record 114 of 495

Title: Formulation and numerical solution of finite-level quantum optimal control problems

Author(s): Borzi, A (Borzi, A.); Salomon, J (Salomon, J.); Volkwein, S (Volkwein, S.)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 216 **Issue:** 1 **Pages:** 170-197 **DOI:** 10.1016/j.cam.2007.04.029 **Published:** JUN 15 2008

ISSN: 0377-0427

Record 115 of 495

Title: Modified Rayleigh conjecture method and its applications

Author(s): Ramm, AG (Ramm, Alexander G.); Gutman, S (Gutman, Sernion)

Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS **Volume:** 68 **Issue:** 12 **Pages:** 3884-3908 **DOI:** 10.1016/j.na.2007.04.028 **Published:** JUN 12 2008

ISSN: 0362-546X

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Title: Sobolev gradient type preconditioning for the saint-venant model of elasto-plastic torsion

Author(s): Farago, I (Farago, Istvan); Karatson, J (Karatson, Janos)

Source: INTERNATIONAL JOURNAL OF NUMERICAL ANALYSIS AND MODELING **Volume:** 5 **Issue:** 2 **Pages:** 206-221 **Published:** JUN 2008

ISSN: 1705-5105

Record 117 of 495

Title: Flexible approximation schemes with adaptive grid refinement

Author(s): Dai, JH (Dai, Jianhua); Tsukerman, I (Tsukerman, Igor)

Source: IEEE TRANSACTIONS ON MAGNETICS **Volume:** 44 **Issue:** 6 **Pages:** 1206-1209 **DOI:** 10.1109/TMAG.2007.916367 **Published:** JUN 2008

Conference: 16th Biennial COMPUMAG Conference on Computation of Electromagnetic Fields Aachen, GERMANY JUN 24-28, 2007 Int Compumag Soc

Conference Title: 16th Biennial COMPUMAG Conference on Computation of Electromagnetic Fields

Conference Date: JUN 24-28, 2007

Conference Location: Aachen, GERMANY

Conference Sponsor(s): Int Compumag Soc

ISSN: 0018-9464

Record 118 of 495

Title: Finite element-based level set methods for higher order flows

Author(s): Burger, M (Burger, Martin); Stocker, C (Stoecker, Christina); Voigt, A (Voigt, Axel)

Source: JOURNAL OF SCIENTIFIC COMPUTING **Volume:** 35 **Issue:** 2-3 **Pages:** 77-98 **DOI:** 10.1007/s10915-008-9204-x **Published:** JUN 2008

ISSN: 0885-7474

Record 119 of 495

Title: Summing a curious, slowly convergent series

Author(s): Schmelzer, T (Schmelzer, Thomas); Baillie, R (Baillie, Robert)

Source: AMERICAN MATHEMATICAL MONTHLY **Volume:** 115 **Issue:** 6 **Pages:** 525-540 **Published:** JUN-JUL 2008

ISSN: 0002-9890

Record 120 of 495

Title: The infrared-driven cis-trans isomerization of nitrous acid HONOIII: A mixed quantum-classical simulation

Author(s): Hamm, P (Hamm, Peter)

Source: CHEMICAL PHYSICS **Volume:** 347 **Issue:** 1-3 **Pages:** 503-513 **DOI:** 10.1016/j.chemphys.2007.10.013 **Published:** MAY 23 2008

ISSN: 0301-0104

Record 121 of 495

Title: Molecular orbital propagation to accelerate self-consistent-field convergence in an ab initio molecular dynamics simulation

Author(s): Atsumi, T (Atsumi, Teruo); Nakai, H (Nakai, Hiromi)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 128 **Issue:** 9 **Article Number:** 094101 **DOI:** 10.1063/1.2839857 **Published:** MAR 7 2008

ISSN: 0021-9606

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Title: Enhanced order composition methods

Author(s): Chang, JC (Chang, J. C.); Chan, TMH (Chan, T. M. H.); Chen, DJL (Chen, D. J. L.)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 58 **Issue:** 3 **Pages:** 223-235 **DOI:** 10.1016/j.apnum.2006.11.012 **Published:** MAR 2008

ISSN: 0168-9274

Record 123 of 495

Title: PERTURBATION METHODS IN LINEAR ALGEBRA AND CONTROL SURVEY

Author(s): Konstantinov, MM (Konstantinov, Mihail M.); Petkov, PH (Petkov, Petko H.)

Source: APPLIED AND COMPUTATIONAL MATHEMATICS **Volume:** 7 **Issue:** 2 **Pages:** 141-161 **Published:** 2008

ISSN: 1683-3511

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Title: LIKELIHOOD-BASED ESTIMATION OF MULTIDIMENSIONAL LANGEVIN MODELS AND ITS APPLICATION TO BIOMOLECULAR DYNAMICS

Author(s): Horenko, I (Horenko, Illia); Schutte, C (Schuette, Christof)

Source: MULTISCALE MODELING & SIMULATION **Volume:** 7 **Issue:** 2 **Pages:** 731-773 **DOI:** 10.1137/070687451 **Published:** 2008

ISSN: 1540-3459

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Title: FAST MARCHING METHODS FOR STATIONARY HAMILTON-JACOBI EQUATIONS WITH AXIS-ALIGNED ANISOTROPY

Author(s): Alton, K (Alton, Ken); Mitchell, IM (Mitchell, Ian M.)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 47 **Issue:** 1 **Pages:** 363-385 **DOI:** 10.1137/070680357 **Published:** 2008

ISSN: 0036-1429

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Title: Computer-assisted discovery and proof

Author(s): Bailey, DH (Bailey, David H.); Borwein, JM (Borwein, Jonathan M.)

Editor(s): Amdebehan T; Moll VH

Source: TAPAS IN EXPERIMENTAL MATHEMATICS **Book Series:** CONTEMPORARY MATHEMATICS SERIES **Volume:** 457 **Pages:** 21-52 **Published:** 2008

Conference: AMS Special Session on Experimental Mathematics New Orleans, LA JAN 05, 2007

Conference Title: AMS Special Session on Experimental Mathematics

Conference Date: JAN 05, 2007

Conference Location: New Orleans, LA

ISSN: 0271-4132

ISBN: 978-0-8218-4317-8

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Title: Micromechanics-based conversion of CT data into anisotropic elasticity tensors, applied to FE simulations of a mandible

Author(s): Hellmich, C (Hellmich, Christian); Kober, C (Kober, Cornelia); Erdmann, B (Erdmann, Bodo)

Source: ANNALS OF BIOMEDICAL ENGINEERING **Volume:** 36 **Issue:** 1 **Pages:** 108-122 **DOI:** 10.1007/s10439-007-9393-8 **Published:** JAN 2008

ISSN: 0090-6964

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Title: A FAST ITERATIVE METHOD FOR EIKONAL EQUATIONS

Author(s): Jeong, WK (Jeong, Won-Ki); Whitaker, RT (Whitaker, Ross T.)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 30 **Issue:** 5 **Pages:** 2512-2534 **DOI:** 10.1137/060670298 **Published:** 2008

ISSN: 1064-8275

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Title: ADAPTIVE DISCRETE GALERKIN METHODS APPLIED TO THE CHEMICAL MASTER EQUATION

Author(s): Deuffhard, P (Deuffhard, P.); Huisinga, W (Huisinga, W.); Jahnke, T (Jahnke, T.); Wulkow, M (Wulkow, M.)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 30 **Issue:** 6 **Special Issue:** SI **Pages:** 2990-3011 **DOI:** 10.1137/070689759 **Published:** 2008

Conference: SIAM Conference on Computational Science and Engineering Costa Mesa, CA FEB 19-23, 2007 SIAM

Conference Title: SIAM Conference on Computational Science and Engineering

Conference Date: FEB 19-23, 2007

Conference Location: Costa Mesa, CA

Conference Sponsor(s): SIAM

ISSN: 1064-8275

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Title: MULTIGRID OPTIMIZATION SCHEMES FOR SOLVING BOSE-EINSTEIN CONDENSATE CONTROL PROBLEMS

Author(s): Borzi, A (Borzi, A.); Hohenester, U (Hohenester, U.)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 30 **Issue:** 1 **Pages:** 441-462 **DOI:** 10.1137/070686135 **Published:** 2008

ISSN: 1064-8275

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Title: A Jacobi-Davidson method for the hp multilevel analysis of cavity modes

Author(s): Nickel, P (Nickel, P.); Hill, V (Hill, V.); Ingelstrom, P (Ingelstrom, P.); Dyczij-Edlinger, R (Dyczij-Edlinger, R.)

Source: ELECTROMAGNETICS **Volume:** 28 **Issue:** 1-2 **Pages:** 92-108 **DOI:** 10.1080/02726340701818162 **Published:** 2008

Conference: 8th International Workshop on Finite Elements for Microwave Engineering Stellenbosch, SOUTH AFRICA MAY 25-26, 2006

Conference Title: 8th International Workshop on Finite Elements for Microwave Engineering

Conference Date: MAY 25-26, 2006

Conference Location: Stellenbosch, SOUTH AFRICA

ISSN: 0272-6343

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Title: Weak-convergence methods for Hamiltonian multiscale problems

Author(s): Mielke, A (Mielke, Alexander)

Source: DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS **Volume:** 20 **Issue:** 1 **Pages:** 53-79 **Published:** JAN 2008

ISSN: 1078-0947

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Title: A modified wavelet approximation for multi-resolution AWCM in simulating nonlinear vibration of MDOF systems

Author(s): Zhou, YH (Zhou, You-He); Zhou, J (Zhou, Jun)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 197 **Issue:** 17-18 **Pages:** 1466-1478 **DOI:** 10.1016/j.cma.2007.11.017 **Published:** 2008

ISSN: 0045-7825

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Title: The reverse method of lines in flexible multibody dynamics

Author(s): Lunk, C (Lunk, Christoph); Simeon, B (Simeon, Bernd)

Editor(s): Bonilla LL; Moscoso M; Platero G; Vega JM

Source: PROGRESS IN INDUSTRIAL MATHEMATICS AT ECMI 2006 **Book Series:** MATHEMATICS IN INDUSTRY **Volume:** 12 **Pages:** 242-246 **Published:** 2008

Conference: 14th European Conference for Mathematics in Industry Univ Carlos III Madrid, Leganes, SPAIN JUL 10-14, 2006 Univ Carlos III Madrid

Conference Title: 14th European Conference for Mathematics in Industry

Conference Date: JUL 10-14, 2006

Conference Location: Leganes, SPAIN

Conference Host: Univ Carlos III Madrid

ISBN: 978-3-540-71991-5

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Title: Projective SOR-Procedures for Signorini Problems

Author(s): Schroder, A (Schroeder, A.); Blum, H (Blum, H.)

Editor(s): Simos TE; Psihoyios G; Tsitouras C

Source: NUMERICAL ANALYSIS AND APPLIED MATHEMATICS **Book Series:** AIP CONFERENCE PROCEEDINGS **Volume:** 1048 **Pages:** 474-477 **Published:** 2008

Conference: International Conference on Numerical Analysis and Applied Mathematics Psalidi, GREECE SEP 16-20, 2008 Greek Minist Educ & Religious Affairs European Soc Computat Methods Sci & Engn

Conference Title: International Conference on Numerical Analysis and Applied Mathematics

Conference Date: SEP 16-20. 2008

Conference Location: Psalidi, GREECE

Conference Sponsor(s): Greek Minist Educ & Religious Affairs, European Soc Computat Methods Sci & Engn

ISSN: 0094-243X

ISBN: 978-0-7354-0576-9

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Title: Cascadic Multiresolution Methods for Image Deblurring

Author(s): Morigi, S (Morigi, Serena); Reichel, L (Reichel, Lothar); Sgallari, F (Sgallari, Fiorella); Shyshkov, A (Shyshkov, Andriy)

Source: SIAM JOURNAL ON IMAGING SCIENCES **Volume:** 1 **Issue:** 1 **Pages:** 51-74 **DOI:** 10.1137/070694065 **Published:** 2008

ISSN: 1936-4954

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Title: Anisotropic geodesic distance computation for parametric surfaces

Author(s): Seong, JK (Seong, Joon-Kyung); Jeong, WK (Jeong, Won-Ki); Cohen, E (Cohen, Elaine)

Editor(s): Spagnuolo M; CohenOr D; Gu XD

Source: IEEE INTERNATIONAL CONFERENCE ON SHAPE MODELING AND APPLICATIONS 2008, PROCEEDINGS **Pages:** 179-186 **Published:** 2008

Conference: IEEE International Conference on Shape Modeling and Applications Stony Brook, NY JUN 04-06, 2008
IEEE Comp Soc, VGTC ACM SIGGRAPH EUROGRAPHICS Comp Graph Soc

Conference Title: IEEE International Conference on Shape Modeling and Applications

Conference Date: JUN 04-06, 2008

Conference Location: Stony Brook, NY

Conference Sponsor(s): IEEE Comp Soc, VGTC, ACM SIGGRAPH, EUROGRAPHICS, Comp Graph Soc

ISBN: 978-1-4244-2260-9

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Title: SPACE ADAPTIVE FINITE ELEMENT METHODS FOR DYNAMIC OBSTACLE PROBLEMS

Author(s): Blum, H (Blum, Heribert); Rademacher, A (Rademacher, Andreas); Schroder, A (Schroeder, Andreas)

Source: ELECTRONIC TRANSACTIONS ON NUMERICAL ANALYSIS **Volume:** 32 **Pages:** 162-172 **Published:** 2008

Conference: 20th Chemnitz Finite Element Symposium 2007 Chemnitz, GERMANY SEP 24-26, 2007

Conference Title: 20th Chemnitz Finite Element Symposium 2007

Conference Date: SEP 24-26, 2007

Conference Location: Chemnitz, GERMANY

ISSN: 1068-9613

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Title: Economical cascadic multigrid method (ECMG)

Author(s): Shi, ZC (Shi, Zhong-ci); Xu, XJ (Xu, Xue-jun); Huang, YQ (Huang, Yun-qing)

Source: SCIENCE IN CHINA SERIES A-MATHEMATICS **Volume:** 50 **Issue:** 12 **Pages:** 1765-1780 **DOI:** 10.1007/s11425-007-0127-z **Published:** DEC 2007

ISSN: 1006-9283

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Title: Taming a hydra of singularities

Author(s): Bornemann, F (Bornemann, Folkmar); Schmelzer, T (Schmelzer, Thomas)

Source: AMERICAN MATHEMATICAL MONTHLY **Volume:** 114 **Issue:** 8 **Pages:** 727-732 **Published:** OCT 2007

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Title: Real-time capable vehicle-trailer coupling by algorithms for differential-algebraic equations

Author(s): Esterl, B (Esterl, Benjamin); Butz, T (Butz, Torsten); Simeon, B (Simeon, Bernd); Burgermeister, B (Burgermeister, Bernhard)

Source: VEHICLE SYSTEM DYNAMICS **Volume:** 45 **Issue:** 9 **Pages:** 819-834 **DOI:** 10.1080/00423110601132588 **Published:** SEP 2007

ISSN: 0042-3114

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Title: Automatic coordinate transformation for two-point boundary value problems

Author(s): Rangan, AV (Rangan, Aaditya V.)

Source: COMMUNICATIONS IN MATHEMATICAL SCIENCES **Volume:** 5 **Issue:** 3 **Pages:** 723-741 **Published:** SEP 2007

ISSN: 1539-6746

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Title: Mathematics and mathematica

Author(s): Wagon, S (Wagon, Stan)

Source: MATHEMATICAL INTELLIGENCER **Volume:** 29 **Issue:** 4 **Pages:** 51-61 **DOI:** 10.1007/BF02986176 **Published:** FAL 2007

ISSN: 0343-6993

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Title: From useful algorithms for slowly convergent series to physical predictions based on divergent perturbative expansions

Author(s): Caliceti, E (Caliceti, E.); Meyer-Hermann, M (Meyer-Hermann, M.); Ribeca, P (Ribeca, P.); Surzhykov, A (Surzhykov, A.); Jentschura, UD (Jentschura, U. D.)

Source: PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS **Volume:** 446 **Issue:** 1-3 **Pages:** 1-96 **DOI:** 10.1016/j.physrep.2007.03.003 **Published:** JUL 2007

ISSN: 0370-1573

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Title: Adaptive frame methods for elliptic operator equations

Author(s): Dahlke, S (Dahlke, Stephan); Fornasier, M (Fornasier, Massimo); Raasch, T (Raasch, Thorsten)

Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 27 **Issue:** 1 **Pages:** 27-63 **DOI:** 10.1007/s10444-005-7501-6 **Published:** JUL 2007

ISSN: 1019-7168

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Title: A level set approach to anisotropic flows with curvature regularization

Author(s): Burger, M (Burger, Martin); HauBer, F (HauBer, Frank); Stocker, C (Stoecker, Christina); Voigt, A (Voigt, Axel)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 225 **Issue:** 1 **Pages:** 183-205 **DOI:** 10.1016/j.jcp.2006.11.026 **Published:** JUL 1 2007

ISSN: 0021-9991

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Title: Efficient implementation of nonuniform refinement levels in a geometric multigrid finite-element method for electromagnetic waves

Author(s): Hill, V (Hill, V.); Farle, O (Farle, O.); Ingelstrom, P (Ingelstroem, P.); Dyczij-Edlinger, R (Dyczij-Edlinger, R.)

Source: IEEE TRANSACTIONS ON MAGNETICS **Volume:** 43 **Issue:** 4 **Special Issue:** SI **Pages:** 1521-1524 **DOI:** 10.1109/TMAG.2007.892437 **Published:** APR 2007

Conference: 12th Biennial IEEE Conference on Electromagnetic Field computation Miami, FL APR 30-MAY 03, 2006 IEEE

Conference Title: 12th Biennial IEEE Conference on Electromagnetic Field computation

Conference Date: APR 30-MAY 03, 2006

Conference Location: Miami, FL

Conference Sponsor(s): IEEE

ISSN: 0018-9464

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Title: Linearly implicit time integration methods in real-time applications: DAEs and stiff ODEs

Author(s): Arnold, M (Arnold, Martin); Burgermeister, B (Burgermeister, Bernhard); Eichberger, A (Eichberger, Alexander)

Source: MULTIBODY SYSTEM DYNAMICS **Volume:** 17 **Issue:** 2-3 **Pages:** 99-117 **DOI:** 10.1007/s11044-007-9036-8 **Published:** APR 2007

Conference: EUROMECH Colloquium 476 on Real-Time Simulation and Virtual Reality Applications of Multibody Systems Univ Coruna, Ferrol, SPAIN MAR 13-16, 2006 Univ Coruna

Conference Title: EUROMECH Colloquium 476 on Real-Time Simulation and Virtual Reality Applications of Multibody Systems

Conference Date: MAR 13-16, 2006

Conference Location: Ferrol, SPAIN

Conference Host: Univ Coruna

ISSN: 1384-5640

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Title: Derivation of symplectic numerical schemes for highly oscillatory Hamiltonian systems

Author(s): Le Bris, C (Le Bris, Claude); Legoll, F (Legoll, Frederic)

Source: COMPTES RENDUS MATHEMATIQUE **Volume:** 344 **Issue:** 4 **Pages:** 277-282 **DOI:** 10.1016/j.crma.2006.12.012 **Published:** FEB 15 2007

ISSN: 1631-073X

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Title: Computer simulations for the nano-scale

Author(s): Stich, I (Stich, I.)

Source: ACTA PHYSICA SLOVACA **Volume:** 57 **Issue:** 1 **Pages:** 1-176 **DOI:** 10.2478/v10155-010-0083-y **Published:** FEB 2007

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Title: Hydration of alkali ions from first principles molecular dynamics revisited

Author(s): Ikeda, T (Ikeda, Takashi); Boero, M (Boero, Mauro); Terakura, K (Terakura, Kiyoyuki)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 126 **Issue:** 3 **Article Number:** 034501 **DOI:** 10.1063/1.2424710 **Published:** JAN 21 2007

ISSN: 0021-9606

Record 152 of 495

Title: Modified hierarchy basis for solving singular boundary value problems

Author(s): Liu, ST (Liu, Song-Tao)

Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS **Volume:** 325 **Issue:** 2 **Pages:** 1240-1256 **DOI:** 10.1016/j.jmaa.2006.02.043 **Published:** JAN 15 2007

ISSN: 0022-247X

Record 153 of 495

Title: Acceleration of convergence of sequences via orthogonal polynomials

Author(s): Laurie, DP (Laurie, D. P.)

Editor(s): Simos TE

Source: Numerical Analysis and Applied Mathematics **Book Series:** AIP CONFERENCE PROCEEDINGS **Volume:** 936 **Pages:** 15-18 **Published:** 2007

Conference: International Conference on Numerical Analysis and Applied Mathematics Corfu, GREECE SEP 16-20, 2007 Greek Minist Educ European Soc Computat Methods Sci & Engn

Conference Title: International Conference on Numerical Analysis and Applied Mathematics

Conference Date: SEP 16-20, 2007

Conference Location: Corfu, GREECE

Conference Sponsor(s): Greek Minist Educ, European Soc Computat Methods Sci & Engn

ISSN: 0094-243X

ISBN: 978-0-7354-0447-2

Record 154 of 495

Title: Robust norm equivalencies for diffusion problems

Author(s): Griebel, M (Griebel, Michael); Scherer, K (Scherer, Karl); Schweitzer, MA (Schweitzer, Marc Alexander)

Source: MATHEMATICS OF COMPUTATION **Volume:** 76 **Issue:** 259 **Pages:** 1141-1161 **DOI:** 10.1090/S0025-5718-07-01973-4 **Published:** 2007

ISSN: 0025-5718

Record 155 of 495

Title: Dynamical systems with active singularities of elastic type: A modeling and controller synthesis framework

Author(s): Bentsman, J (Bentsman, Joseph); Miller, BM (Miller, Boris M.)

Source: IEEE TRANSACTIONS ON AUTOMATIC CONTROL **Volume:** 52 **Issue:** 1 **Pages:** 39-55 **DOI:** 10.1109/TAC.2006.887899 **Published:** JAN 2007

ISSN: 0018-9286

Record 156 of 495

Title: The finite element approximation of the nonlinear Poisson-Boltzmann equation

Author(s): Chen, L (Chen, Long); Holst, MJ (Holst, Michael J.); Xu, JC (Xu, Jinchao)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 45 **Issue:** 6 **Pages:** 2298-2320 **DOI:** 10.1137/060675514 **Published:** 2007
ISSN: 0036-1429

Record 157 of 495

Title: Nodal auxiliary space preconditioning in $H(\text{curl})$ and $H(\text{div})$ spaces

Author(s): Hiptmair, R (Hiptmair, Ralf); Xu, JC (Xu, Jinchao)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 45 **Issue:** 6 **Pages:** 2483-2509 **DOI:** 10.1137/060660588 **Published:** 2007

ISSN: 0036-1429

Record 158 of 495

Title: deal. II - A general-purpose object-oriented finite element library

Author(s): Bangerth, W (Bangerth, W.); Hartmann, R (Hartmann, R.); Kanschat, G (Kanschat, G.)

Source: ACM TRANSACTIONS ON MATHEMATICAL SOFTWARE **Volume:** 33 **Issue:** 4 **Article Number:** 24 **DOI:** 10.1145/1268776.1268779 **Published:** 2007

ISSN: 0098-3500

Record 159 of 495

Title: VARIABLE-PRECISION ARITHMETIC CONSIDERED PERILOUS - A DETECTIVE STORY

Author(s): Laurie, D (Laurie, Dirk)

Source: ELECTRONIC TRANSACTIONS ON NUMERICAL ANALYSIS **Volume:** 28 **Pages:** 168-173 **Published:** 2007

ISSN: 1068-9613

Record 160 of 495

Title: Interval and fuzzy analysis: A unified approach

Author(s): Lodwick, WA (Lodwick, Weldon A.)

Editor(s): Hawkes PW

Source: ADVANCES IN IMAGING AND ELECTRON PHYSICS, VOL 148 **Book Series:** Advances in Imaging and Electron Physics **Volume:** 148 **Pages:** 75-192 **DOI:** 10.1016/S1076-5670(07)48002-8 **Published:** 2007

ISSN: 1076-5670

ISBN: 978-0-12-373910-0

Record 161 of 495

Title: Multilevel preconditioning for the boundary concentrated hp-FEM

Author(s): Eibner, T (Eibner, T.); Melenk, JM (Melenk, J. M.)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 196 **Issue:** 37-40 **Pages:** 3713-3725 **DOI:** 10.1016/j.cma.2006.10.034 **Published:** 2007

ISSN: 0045-7825

Record 162 of 495

Title: Local problem-based a posteriori error estimators for discontinuous Galerkin approximations of reactive transport

Author(s): Sun, SY (Sun, Shuyu); Wheeler, MF (Wheeler, Mary F.)

Source: COMPUTATIONAL GEOSCIENCES **Volume:** 11 **Issue:** 2 **Pages:** 87-101 **DOI:** 10.1007/s10596-007-9041-2 **Published:** 2007

ISSN: 1420-0597

Record 163 of 495

Title: Domain decomposition methods

Author(s): Nepomnyaschikh, S (Nepomnyaschikh, Sergey)

Editor(s): Kraus J; Langer U

Source: LECTURES ON ADVANCED COMPUTATIONAL METHODS IN MECHANICS **Book Series:** Radon Series on Computational and Applied Mathematics **Volume:** 1 **Pages:** 89-159 **Published:** 2007

Conference: Conference on Computational Mechanics Austrian Acad Sci, Johann Radon Inst Computat & Appl Math, Linz, AUSTRIA OCT 03-DEC 06, 2005 Austrian Acad Sci, Johann Radon Inst Computat & Appl Math

Conference Title: Conference on Computational Mechanics

Conference Date: OCT 03-DEC 06, 2005

Conference Location: Linz, AUSTRIA

Conference Host: Austrian Acad Sci, Johann Radon Inst Computat & Appl Math

ISSN: 1865-3707

ISBN: 978-3-11-019556-9

Record 164 of 495

Title: A multigrid platform for real-time motion computation with discontinuity-preserving variational methods

Author(s): Bruhn, A (Bruhn, Andres); Weickert, J (Weickert, Joachim); Kohlberger, T (Kohlberger, Timo); Schnorr, C (Schnoerr, Christoph)

Source: INTERNATIONAL JOURNAL OF COMPUTER VISION **Volume:** 70 **Issue:** 3 **Pages:** 257-277 **DOI:** 10.1007/s11263-006-6616-7 **Published:** DEC 2006

Conference: 5th International Conference on Scale-Space and PDE Methods in Computer Vision Hofgeismar, GERMANY APR 07-09, 2005 German Pattern Recognit Soc

Conference Title: 5th International Conference on Scale-Space and PDE Methods in Computer Vision

Conference Date: APR 07-09, 2005

Conference Location: Hofgeismar, GERMANY

Conference Sponsor(s): German Pattern Recognit Soc

ISSN: 0920-5691

Record 165 of 495

Title: Algorithm 858: Computing infinite range integrals of an arbitrary product of Bessel functions

Author(s): Van Deun, J (Van Deun, Joris); Cools, R (Cools, Ronald)

Source: ACM TRANSACTIONS ON MATHEMATICAL SOFTWARE **Volume:** 32 **Issue:** 4 **Pages:** 580-596 **Published:** DEC 2006

ISSN: 0098-3500

Record 166 of 495

Title: Adiabatic transfer of population in a dense fluid: The role of dephasing statistics

Author(s): Demirplak, M (Demirplak, Mustafa); Rice, SA (Rice, Stuart A.)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 125 **Issue:** 19 **Article Number:** 194517 **DOI:** 10.1063/1.2372498 **Published:** NOV 21 2006

ISSN: 0021-9606

Record 167 of 495

Title: Multigrid methods on adaptively refined grids

Author(s): Bastian, P (Bastian, Peter); Wieners, C (Wieners, Christian)

Source: COMPUTING IN SCIENCE & ENGINEERING **Volume:** 8 **Issue:** 6 **Pages:** 44-54 **DOI:** 10.1109/MCSE.2006.116 **Published:** NOV-DEC 2006

ISSN: 1521-9615

Record 168 of 495

Title: DAE time integration for real-time applications in multi-body dynamics

Author(s): Burgermeister, B (Burgermeister, Bernhard); Arnold, M (Arnold, Martin); Esterl, B (Esterl, Benjamin)
Source: ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK **Volume:** 86 **Issue:** 10 **Special Issue:** SI **Pages:** 759-771 **DOI:** 10.1002/zamm.200610.284 **Published:** OCT 2006
Conference: Workshop on Numerical Methods in Multibody Dynamics Bad Herrenalb, GERMANY OCT 26-28, 2005
European Consortium Math Ind
Conference Title: Workshop on Numerical Methods in Multibody Dynamics
Conference Date: OCT 26-28, 2005
Conference Location: Bad Herrenalb, GERMANY
Conference Sponsor(s): European Consortium Math Ind
ISSN: 0044-2267

Record 169 of 495

Title: Uniform convergence of multigrid V-cycle on adaptively refined finite element meshes for second order elliptic problems

Author(s): Wu, HJ (Wu Haijun); Chen, ZM (Chen Zhiming)

Source: SCIENCE IN CHINA SERIES A-MATHEMATICS **Volume:** 49 **Issue:** 10 **Pages:** 1405-1429 **DOI:** 10.1007/s11425-006-2005-5 **Published:** OCT 2006

ISSN: 1006-9283

Record 170 of 495

Title: Stability index method for global minimization

Author(s): Dover, J (Dover, James); Gutman, S (Gutman, Semion)

Source: JOURNAL OF GLOBAL OPTIMIZATION **Volume:** 36 **Issue:** 2 **Pages:** 307-318 **DOI:** 10.1007/s10898-006-9010-7 **Published:** OCT 2006

ISSN: 0925-5001

Record 171 of 495

Title: Proton transfer 200 years after von Grothuss: Insights from ab initio simulations

Author(s): Marx, D (Marx, Dominik)

Source: CHEMPHYSICHEM **Volume:** 7 **Issue:** 9 **Pages:** 1848-1870 **DOI:** 10.1002/cphc.200600128 **Published:** SEP 11 2006

ISSN: 1439-4235

Record 172 of 495

Title: Optimal approximation of elliptic problems by linear and nonlinear mappings II

Author(s): Dahlke, S (Dahlke, Stephan); Novak, E (Novak, Erich); Sickel, W (Sickel, Winfried)

Source: JOURNAL OF COMPLEXITY **Volume:** 22 **Issue:** 4 **Pages:** 549-603 **DOI:** 10.1016/j.jco.2006.04.001 **Published:** AUG 2006

ISSN: 0885-064X

Record 173 of 495

Title: Abstract cascading multigrid preconditioners in Besov spaces

Author(s): Ma, JT (Ma, JT); Brunner, H (Brunner, H)

Source: COMMUNICATIONS ON PURE AND APPLIED ANALYSIS **Volume:** 5 **Issue:** 2 **Pages:** 349-365 **Published:** JUN 2006

ISSN: 1534-0392

Record 174 of 495

Title: Ten problems in experimental mathematics

Author(s): Bailey, DH (Bailey, DH); Borwein, JM (Borwein, JM); Kapoor, V (Kapoor, V); Weisstein, EW (Weisstein,

EW)

Source: AMERICAN MATHEMATICAL MONTHLY **Volume:** 113 **Issue:** 6 **Pages:** 481-509 **Published:** JUN-JUL 2006

ISSN: 0002-9890

Record 175 of 495

Title: Simultaneous space-time adaptive wavelet solution of nonlinear parabolic differential equations

Author(s): Alam, JM (Alam, JM); Kevlahan, NKR (Kevlahan, NKR); Vasilyev, OV (Vasilyev, OV)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 214 **Issue:** 2 **Pages:** 829-857 **DOI:** 10.1016/j.jcp.2005.10.009 **Published:** MAY 20 2006

ISSN: 0021-9991

Record 176 of 495

Title: Geometric integrators for multiple time-scale simulation

Author(s): Jia, ZD (Jia, ZD); Leimkuhler, B (Leimkuhler, B)

Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL **Volume:** 39 **Issue:** 19 **Pages:** 5379-5403 **DOI:** 10.1088/0305-4470/39/19/S04 **Published:** MAY 12 2006

ISSN: 0305-4470

Record 177 of 495

Title: Excited state quantum-classical molecular dynamics

Author(s): Krstic, PS (Krstic, PS); Harrison, RJ (Harrison, RJ); Sumpter, BG (Sumpter, BG)

Source: PHYSICA SCRIPTA **Volume:** T124 **Pages:** 101-107 **DOI:** 10.1088/0031-8949/2006/T124/020 **Published:** MAY 2006

Conference: Workshop on New Directions for Advanced Computer Simulations and Experiments in Fusion-Related Plasma-Surface Interactions Oak Ridge, TN MAR 21-23, 2005

Conference Title: Workshop on New Directions for Advanced Computer Simulations and Experiments in Fusion-Related Plasma-Surface Interactions

Conference Date: MAR 21-23, 2005

Conference Location: Oak Ridge, TN

ISSN: 0031-8949

Record 178 of 495

Title: Auxiliary space preconditioning in H-0(curl; Omega)

Author(s): Hiptmair, R (Hiptmair, R); Widmer, G (Widmer, G); Zou, J (Zou, J)

Source: NUMERISCHE MATHEMATIK **Volume:** 103 **Issue:** 3 **Pages:** 435-459 **DOI:** 10.1007/s00211-006-0683-0 **Published:** MAY 2006

ISSN: 0029-599X

Record 179 of 495

Title: Numerical simulation of incompressible flows using adaptive unstructured meshes and the pseudo-compressibility hypothesis

Author(s): Popiolek, TL (Popiolek, TL); Awruch, AM (Awruch, AM)

Source: ADVANCES IN ENGINEERING SOFTWARE **Volume:** 37 **Issue:** 4 **Pages:** 260-274 **DOI:** 10.1016/j.advengsoft.2005.06.001 **Published:** APR 2006

ISSN: 0965-9978

Record 180 of 495

Title: Fewest switches adiabatic surface hopping as applied to vibrational energy relaxation

Author(s): Kab, G (Kab, G)

Source: JOURNAL OF PHYSICAL CHEMISTRY A **Volume:** 110 **Issue:** 9 **Pages:** 3197-3215 **DOI:** 10.1021/jp054577k **Published:** MAR 9 2006
ISSN: 1089-5639

Record 181 of 495

Title: EChem++ - An object-oriented problem solving environment for electrochemistry: Part 4. Adaptive multilevel finite elements applied to electrochemical models Algorithm and benchmark calculations

Author(s): Ludwig, K (Ludwig, K); Speiser, B (Speiser, B)

Source: JOURNAL OF ELECTROANALYTICAL CHEMISTRY **Volume:** 588 **Issue:** 1 **Pages:** 74-87 **DOI:** 10.1016/j.jelechem.2005.12.003 **Published:** MAR 1 2006

ISSN: 0022-0728

Record 182 of 495

Title: Eigenvalues, pseudospectrum and structured perturbations

Author(s): Rump, SM (Rump, SM)

Source: LINEAR ALGEBRA AND ITS APPLICATIONS **Volume:** 413 **Issue:** 2-3 **Pages:** 567-593 **DOI:** 10.1016/j.laa.2005.06.009 **Published:** MAR 1 2006

Conference: 11th Conference of the International-Linear-Algebra-Society Univ Coimbra, Coimbra, PORTUGAL JUL 19-22, 2004 Univ Coimbra Int Linear Algebra Soc Ctr Linear & Combinatorial Struct Portuguese Fdn Sci & Technol Gulbenkian Fdn Orient Fdn Luso Amer Fdn SIAM

Conference Title: 11th Conference of the International-Linear-Algebra-Society

Conference Date: JUL 19-22, 2004

Conference Location: Coimbra, PORTUGAL

Conference Sponsor(s): Int Linear Algebra Soc, Ctr Linear & Combinatorial Struct, Portuguese Fdn Sci & Technol, Gulbenkian Fdn, Orient Fdn, Luso Amer Fdn, SIAM

Conference Host: Univ Coimbra

ISSN: 0024-3795

Record 183 of 495

Title: Advanced Car-Parrinello techniques: Path integrals and nonadiabaticity in condensed matter simulations

Author(s): Marx, D (Marx, D.)

Editor(s): Ferrario M; Ciccotti G; Binder K

Source: COMPUTER SIMULATIONS IN CONDENSED MATTER SYSTEMS: FROM MATERIALS TO CHEMICAL BIOLOGY, VOL 2 **Book Series:** Lecture Notes in Physics **Volume:** 704 **Pages:** 507-539 **DOI:** 10.1007/3-350-35284-8_19 **Published:** 2006

Conference: Conference on Computer Simulations in Condensed Matter Systems Ettore Majorana Fdn, Erice, ITALY JUL, 2005 Ettore Majorana Fdn Ctr Sci Culture

Conference Title: Conference on Computer Simulations in Condensed Matter Systems

Conference Date: JUL, 2005

Conference Location: Erice, ITALY

Conference Sponsor(s): Ctr Sci Culture

Conference Host: Ettore Majorana Fdn

ISSN: 0075-8450

ISBN: 978-3-540-35283-9

Record 184 of 495

Title: Density functional theory based ab initio molecular dynamics using them Car-Parrinello approach

Author(s): Vuilleumier, R (Vuilleumier, R.)

Editor(s): Ferrario M; Ciccotti G; Binder K

Source: COMPUTER SIMULATIONS IN CONDENSED MATTER SYSTEMS: FROM MATERIALS TO CHEMICAL BIOLOGY, VOL 1 **Book Series:** Lecture Notes in Physics **Volume:** 703 **Pages:** 223-285 **DOI:**

10.1007/3-540-35273-2_7 **Published:** 2006

Conference: Conference on Computer Simulations in Condensed Matter Systems Ettore Majorana Fdn, Erice, ITALY
JUL, 2005 Ettore Majorana Fdn Ctr Sci Culture

Conference Title: Conference on Computer Simulations in Condensed Matter Systems

Conference Date: JUL, 2005

Conference Location: Erice, ITALY

Conference Sponsor(s): Ctr Sci Culture

Conference Host: Ettore Majorana Fdn

ISSN: 0075-8450

ISBN: 978-3-540-35270-9

Record 185 of 495

Title: Optimality of multilevel preconditioners for local mesh refinement in three dimensions

Author(s): Aksoylu, B (Aksoylu, Burak); Holst, M (Holst, Michael)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 44 **Issue:** 3 **Pages:** 1005-1025 **DOI:**
10.1137/S0036142902406119 **Published:** 2006

ISSN: 0036-1429

Record 186 of 495

Title: A Matlab implementation of an algorithm for computing integrals of products of Bessel functions

Author(s): Van Deun, J (Van Deun, Joris); Cools, R (Cools, Ronald)

Editor(s): Iglesias A; Takayama N

Source: MATHEMATICAL SOFTWARE-ICMS 2006, PROCEEDINGS **Book Series:** LECTURE NOTES IN
COMPUTER SCIENCE **Volume:** 4151 **Pages:** 284-295 **Published:** 2006

Conference: 2nd International Congress on Mathematical Software (ICMS 2006) Castro Urdiales, SPAIN SEP 01-03,
2006 Univ Cantabria, Dept Math, Stat & Computat Univ Cantabria, Dept Appl Math & Computat Sci

Conference Title: 2nd International Congress on Mathematical Software (ICMS 2006)

Conference Date: SEP 01-03, 2006

Conference Location: Castro Urdiales, SPAIN

Conference Sponsor(s): Univ Cantabria, Dept Math, Stat & Computat, Univ Cantabria, Dept Appl Math & Computat Sci

ISSN: 0302-9743

ISBN: 3-540-38084-1

Record 187 of 495

Title: A cache-aware algorithm for PDES on hierarchical data structures based on space-filling curves

Author(s): Gunther, F (Guenther, Frank); Mehl, M (Mehl, Miriam); Pogl, M (Poegl, Markus); Zenger, C (Zenger,
Christoph)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 28 **Issue:** 5 **Pages:** 1634-1650 **DOI:**
10.1137/040604078 **Published:** 2006

ISSN: 1064-8275

Record 188 of 495

Title: Adaptivity in space and time for reaction-diffusion systems in electrocardiology

Author(s): Colli-Franzone, P (Colli-Franzone, Piero); Deuffhard, P (Deuffhard, Peter); Erdmann, B (Erdmann, Bodo);
Lang, J (Lang, Jens); Pavarino, LF (Pavarino, Luca F.)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 28 **Issue:** 3 **Pages:** 942-962 **DOI:**
10.1137/050634785 **Published:** 2006

ISSN: 1064-8275

Record 189 of 495

Title: P-1-nonconforming quadrilateral finite volume element method and its cascadic multigrid algorithm for elliptic problems

Author(s): Man, FY (Man, FY); Shi, ZC (Shi, ZC)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 24 **Issue:** 1 **Pages:** 59-80 **Published:** JAN 2006

ISSN: 0254-9409

Record 190 of 495

Title: A posteriori error estimation and dynamic adaptivity for symmetric discontinuous Galerkin approximations of reactive transport problems

Author(s): Sun, SY (Sun, SY); Wheeler, MF (Wheeler, MF)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 195 **Issue:** 7-8 **Pages:** 632-652 **DOI:** 10.1016/j.cma.2005.02.021 **Published:** 2006

ISSN: 0045-7825

Record 191 of 495

Title: A cache-aware algorithm for PDEs on hierarchical data structures

Author(s): Gunther, F (Gunther, F); Mehl, M (Mehl, M); Pogl, M (Pogl, M); Zenger, C (Zenger, C)

Editor(s): Dongarra J; Madsen K; Wasniewski J

Source: APPLIED PARALLEL COMPUTING: STATE OF THE ART IN SCIENTIFIC COMPUTING **Book Series:** LECTURE NOTES IN COMPUTER SCIENCE **Volume:** 3732 **Pages:** 874-882 **Published:** 2006

Conference: 7th International Workshop on State of the Art in Scientific Computing Lyngby, DENMARK JUN 20-23, 2004 Tech Univ Denmark, Dept Informat & Math Modelling High Performance Comp Numerical Algorithms Grp Ltd Comsol A/S Denmark Sun Microsyst Denmark UNI C Danish Comp Ctr Denmark Microsoft Denmark IBM, Denmark

Conference Title: 7th International Workshop on State of the Art in Scientific Computing

Conference Date: JUN 20-23, 2004

Conference Location: Lyngby, DENMARK

Conference Sponsor(s): Tech Univ Denmark, Dept Informat & Math Modelling, High Performance Comp, Numerical Algorithms Grp Ltd, Comsol A/S Denmark, Sun Microsyst Denmark, UNI C Danish Comp Ctr Denmark, Microsoft Denmark, IBM, Denmark

ISSN: 0302-9743

ISBN: 3-540-29067-2

Record 192 of 495

Title: Smoothing and local refinement techniques for improving tetrahedral mesh quality

Author(s): Escobar, JM (Escobar, JM); Montenegro, R (Montenegro, R); Montero, G (Montero, G); Rodriguez, E (Rodriguez, E); Gonzalez-Yuste, JM (Gonzalez-Yuste, JM)

Source: COMPUTERS & STRUCTURES **Volume:** 83 **Issue:** 28-30 **Pages:** 2423-2430 **DOI:** 10.1016/j.compstruc.2005.03.022 **Published:** NOV 2005

Conference: 9th International Conference on Civil and Structural Engineering Computing/7th International on the Application of Artificial Intelligence to Civil and Structural Engineering Egmond aan Zee, NETHERLANDS SEP 02-04, 2003

Conference Title: 9th International Conference on Civil and Structural Engineering Computing/7th International on the Application of Artificial Intelligence to Civil and Structural Engineering

Conference Date: SEP 02-04, 2003

Conference Location: Egmond aan Zee, NETHERLANDS

ISSN: 0045-7949

Record 193 of 495

Title: Adaptive solutions of SPN-approximations to radiative heat transfer in glass

Author(s): Klar, A (Klar, A); Lang, J (Lang, J); Seaid, M (Seaid, M)

Source: INTERNATIONAL JOURNAL OF THERMAL SCIENCES **Volume:** 44 **Issue:** 11 **Pages:** 1013-1023 **DOI:** 10.1016/j.ijthermalsci.2005.04.001 **Published:** NOV 2005

Conference: ICHMT International Symposium on Advances in Computational Heat Transfer (CHT-04) Bergen, NORWAY APR 19-24, 2004 Int Ctr Heat Mass Transfer

Conference Title: ICHMT International Symposium on Advances in Computational Heat Transfer (CHT-04)

Conference Date: APR 19-24, 2004

Conference Location: Bergen, NORWAY

Conference Sponsor(s): Int Ctr Heat Mass Transfer

ISSN: 1290-0729

Record 194 of 495

Title: Transition probabilities of a string oscillator subject to impulsive collisions with a heavy mass point

Author(s): Teubner, M (Teubner, M)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 123 **Issue:** 17 **Article Number:** 174107 **DOI:** 10.1063/1.2084946 **Published:** NOV 1 2005

ISSN: 0021-9606

Record 195 of 495

Title: Symplectic integrators: An introduction

Author(s): Donnelly, D (Donnelly, D); Rogers, E (Rogers, E)

Source: AMERICAN JOURNAL OF PHYSICS **Volume:** 73 **Issue:** 10 **Pages:** 938-945 **DOI:** 10.1119/1.2034523 **Published:** OCT 2005

ISSN: 0002-9505

Record 196 of 495

Title: An adaptive multigrid approach for the simulation of contaminant transport in the 3D subsurface

Author(s): Li, MH (Li, MH); Cheng, HP (Cheng, HP); Yeh, GT (Yeh, GT)

Source: COMPUTERS & GEOSCIENCES **Volume:** 31 **Issue:** 8 **Pages:** 1028-1041 **DOI:** 10.1016/j.cageo.2005.03.010 **Published:** OCT 2005

ISSN: 0098-3004

Record 197 of 495

Title: A pascal-type triangle characterizing twin primes

Author(s): Dilcher, K (Dilcher, K); Stolarsky, KB (Stolarsky, KB)

Source: AMERICAN MATHEMATICAL MONTHLY **Volume:** 112 **Issue:** 8 **Pages:** 673-681 **Published:** OCT 2005

ISSN: 0002-9890

Record 198 of 495

Title: Finite moment problems and applications to multiphase computations in geometric optics

Author(s): Gosse, L (Gosse, L); Runborg, O (Runborg, O)

Source: COMMUNICATIONS IN MATHEMATICAL SCIENCES **Volume:** 3 **Issue:** 3 **Pages:** 373-392 **Published:** SEP 2005

ISSN: 1539-6746

Record 199 of 495

Title: The uniform saturation property for a singularly perturbed reaction-diffusion equation

Author(s): Stevenson, RP (Stevenson, RP)

Source: NUMERISCHE MATHEMATIK **Volume:** 101 **Issue:** 2 **Pages:** 355-379 **DOI:** 10.1007/s00211-005-0606-5 **Published:** AUG 2005

Record 200 of 495

Title: Adaptive approach for nonlinear sensitivity analysis of reaction kinetics

Author(s): Horenko, I (Horenko, I); Lorenz, S (Lorenz, S); Schutte, C (Schutte, C); Huisinga, W (Huisinga, W)

Source: JOURNAL OF COMPUTATIONAL CHEMISTRY **Volume:** 26 **Issue:** 9 **Pages:** 941-948 **DOI:** 10.1002/jcc.20234 **Published:** JUL 15 2005

ISSN: 0192-8651

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Title: Cascadic multigrid method for the mortar element method for P1 nonconforming element

Author(s): Bi, CJ (Bi, CJ); Hong, DH (Hong, DH)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 23 **Issue:** 4 **Pages:** 425-440 **Published:** JUL 2005

ISSN: 0254-9409

Record 202 of 495

Title: An adaptive multilevel wavelet collocation method for elliptic problems

Author(s): Vasilyev, OV (Vasilyev, OV); Kevlahan, NKR (Kevlahan, NKR)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 206 **Issue:** 2 **Pages:** 412-431 **DOI:** 10.1016/j.jcp.2004.12.013 **Published:** JUL 1 2005

ISSN: 0021-9991

Record 203 of 495

Title: On the homogenization of second order differential equations

Author(s): Jiang, JS (Jiang, JS); Kuo, KH (Kuo, KH); Lin, CK (Lin, CK)

Source: TAIWANESE JOURNAL OF MATHEMATICS **Volume:** 9 **Issue:** 2 **Pages:** 215-236 **Published:** JUN 2005

Conference: Annual Meeting of Differential Equations and Mathematical Analysis held in Honor of Hwai-Chuan Wang Natl Tsing-Hua Univ, Hsinchu, TAIWAN JAN 09-11, 2004 Natl Tsing-Hua Univ

Conference Title: Annual Meeting of Differential Equations and Mathematical Analysis held in Honor of Hwai-Chuan Wang

Conference Date: JAN 09-11, 2004

Conference Location: Hsinchu, TAIWAN

Conference Host: Natl Tsing-Hua Univ

ISSN: 1027-5487

Record 204 of 495

Title: Variational optical flow computation in real time

Author(s): Bruhn, A (Bruhn, A); Weickert, J (Weickert, J); Feddern, C (Feddern, C); Kohlberger, T (Kohlberger, T); Schnorr, C (Schnorr, C)

Source: IEEE TRANSACTIONS ON IMAGE PROCESSING **Volume:** 14 **Issue:** 5 **Pages:** 608-615 **DOI:** 10.1109/TIP.2005.846018 **Published:** MAY 2005

ISSN: 1057-7149

Record 205 of 495

Title: Proton conduction along a chain of water molecules. Development of a linear model and quantum dynamical investigations using the multiconfiguration time-dependent Hartree method

Author(s): Vendrell, O (Vendrell, O); Meyer, HD (Meyer, HD)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 122 **Issue:** 10 **Article Number:** 104505 **DOI:** 10.1063/1.1859274 **Published:** MAR 8 2005

ISSN: 0021-9606

Record 206 of 495

Title: Decay characteristics of the hat interpolation wavelet coefficients in the two-dimensional multiresolution representation

Author(s): Kwon, K (Kwon, K); Kim, YY (Kim, YY)

Source: JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY **Volume:** 42 **Issue:** 2 **Pages:** 305-334 **Published:** MAR 2005

ISSN: 0304-9914

Record 207 of 495

Title: Testing primality deterministically

Author(s): Toffalori, C (Toffalori, C)

Source: INTERNATIONAL JOURNAL OF QUANTUM INFORMATION **Volume:** 3 **Issue:** 1 **Pages:** 269-273 **DOI:** 10.1142/S0219749905000864 **Published:** MAR 2005

Conference: International Meeting on Quantum Information Science Univ Camerino, Camerino, ITALY APR 16-19, 2004 Univ Camerino

Conference Title: International Meeting on Quantum Information Science

Conference Date: APR 16-19, 2004

Conference Location: Camerino, ITALY

Conference Host: Univ Camerino

ISSN: 0219-7499

Record 208 of 495

Title: Anisotropic adaptive simulation of transient flows using discontinuous Galerkin methods

Author(s): Remacle, JF (Remacle, JF); Li, XR (Li, XR); Shephard, MS (Shephard, MS); Flaherty, JE (Flaherty, JE)

Source: INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING **Volume:** 62 **Issue:** 7 **Pages:** 899-923 **DOI:** 10.1002/nme.1196 **Published:** FEB 21 2005

ISSN: 0029-5981

Record 209 of 495

Title: Homogenization of second order equation with spatial dependent coefficient

Author(s): Jiang, JS (Jiang, JS); Kuo, KH (Kuo, KH); Lin, CK (Lin, CK)

Source: DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS **Volume:** 12 **Issue:** 2 **Pages:** 303-313 **Published:** FEB 2005

ISSN: 1078-0947

Record 210 of 495

Title: The SIAM 100-digit challenge - A study in high-accuracy

Author(s): Strang, G (Strang, G)

Source: SCIENCE **Volume:** 307 **Issue:** 5709 **Pages:** 521-522 **DOI:** 10.1126/science.1108288 **Published:** JAN 28 2005

ISSN: 0036-8075

Record 211 of 495

Title: Stopping criteria for iterations in finite element methods

Author(s): Arioli, M (Arioli, M); Loghin, D (Loghin, D); Wathen, AJ (Wathen, AJ)

Source: NUMERISCHE MATHEMATIK **Volume:** 99 **Issue:** 3 **Pages:** 381-410 **DOI:** 10.1007/s00211-004-0568-z **Published:** JAN 2005

ISSN: 0029-599X

Record 212 of 495

Title: Cryptographic primitives

Author(s): Garrett, P (Garrett, P)

Editor(s): Garret P; Lieman D

Source: PUBLIC-KEY CRYPTOGRAPHY **Book Series:** Proceedings of Symposia in Applied Mathematics **Volume:** 62 **Pages:** 1-62 **Published:** 2005

Conference: Joint Annual Meeting of the American-Mathematical-Society/Mathematical-Association-of-America
Baltimore, MD JAN 17, 2003 Amer Math Soc Math Assoc Amer

Conference Title: Joint Annual Meeting of the American-Mathematical-Society/Mathematical-Association-of-America

Conference Date: JAN 17, 2003

Conference Location: Baltimore, MD

Conference Sponsor(s): Amer Math Soc, Math Assoc Amer

ISBN: 0-8218-3365-0

Record 213 of 495

Title: Prediction of aggregation kinetics based on surface properties of nanoparticles

Author(s): Schwarzer, HC (Schwarzer, HC); Peukert, W (Peukert, W)

Source: CHEMICAL ENGINEERING SCIENCE **Volume:** 60 **Issue:** 1 **Pages:** 11-25 **DOI:** 10.1016/j.ces.2004.06.050 **Published:** JAN 2005

ISSN: 0009-2509

Record 214 of 495

Title: Homogenization and memory effect of a three by three system - Dedicated to Professor Chiu-Chun Chang on his sixtieth birthday

Author(s): Jiang, JS (Jiang, JS); Kuo, KH (Kuo, KH); Lin, CK (Lin, CK)

Source: JOURNAL OF MATHEMATICS OF KYOTO UNIVERSITY **Volume:** 45 **Issue:** 3 **Pages:** 429-447 **Published:** 2005

ISSN: 0023-608X

Record 215 of 495

Title: From atoms to crystals: A mathematical journey

Author(s): Le Bris, C (Le Bris, C); Lions, PL (Lions, PL)

Source: BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY **Volume:** 42 **Issue:** 3 **Pages:** 291-363 **DOI:** 10.1090/S0273-0979-05-01059-1 **Published:** 2005

ISSN: 0273-0979

Record 216 of 495

Title: Least-squares Galerkin methods for parabolic problems III: Semidiscrete case for semilinear problems

Author(s): Majid, M (Majid, M)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 42 **Issue:** 6 **Pages:** 2452-2475 **DOI:** 10.1137/S0036142902409185 **Published:** 2005

ISSN: 0036-1429

Record 217 of 495

Title: Weighted norm-equivalences for preconditioning

Author(s): Scherer, K (Scherer, K)

Editor(s): Kornhuber R; Hoppe R; Periaux J; Pironneau O; Widlund O; Xu J

Source: DOMAIN DECOMPOSITION METHODS IN SCIENCE AND ENGINEERING **Book Series:** LECTURE NOTES IN COMPUTATIONAL SCIENCE AND ENGINEERING **Volume:** 40 **Pages:** 405-413 **Published:** 2005

Conference: 15th International Conference on Domain Decomposition Methods in Science and Engineering Freie Univ, Berlin, GERMANY JUL 21-25, 2003 Freie Univ Zuse Inst Berlin Weierstrass Inst Berlin DFG Res Ctr Math Key Technologies

Conference Title: 15th International Conference on Domain Decomposition Methods in Science and Engineering

Conference Date: JUL 21-25, 2003

Conference Location: Berlin, GERMANY

Conference Sponsor(s): Zuse Inst Berlin, Weierstrass Inst Berlin, DFG Res Ctr Math Key Technologies

Conference Host: Freie Univ

ISSN: 1439-7358

ISBN: 3-540-22523-4

Record 218 of 495

Title: A projective thermostatting dynamics technique

Author(s): Jia, ZD (Jia, ZD); Leimkuhler, BJ (Leimkuhler, BJ)

Source: MULTISCALE MODELING & SIMULATION **Volume:** 4 **Issue:** 2 **Pages:** 563-583 **DOI:** 10.1137/040603863 **Published:** 2005

Conference: Workshop on Invariance and Model Reduction for Multiscale Phenomena Swiss Fed Inst Technol, Zurich, SWITZERLAND 2003 Swiss Fed Inst Technol

Conference Title: Workshop on Invariance and Model Reduction for Multiscale Phenomena

Conference Date: 2003

Conference Location: Zurich, SWITZERLAND

Conference Host: Swiss Fed Inst Technol

ISSN: 1540-3459

Record 219 of 495

Title: Genetic algorithms for an improved parameter estimation with local refinement of tetrahedral meshes in a wind model

Author(s): Montero, G (Montero, G); Rodriguez, E (Rodriguez, E); Montenegro, R (Montenegro, R); Escobar, JM (Escobar, JM); Gonzalez-Yuste, JM (Gonzalez-Yuste, JM)

Source: ADVANCES IN ENGINEERING SOFTWARE **Volume:** 36 **Issue:** 1 **Pages:** 3-10 **DOI:** 10.1016/j.advengsoft.2004.03.011 **Published:** JAN 2005

Conference: 6th International Conference on Computational Structures Technology CZECH TECH UNIV, FAC CIVIL ENGN, PRAGUE, CZECH REPUBLIC SEP 04-06, 2002 CZECH TECH UNIV, FAC CIVIL ENGN

Conference Title: 6th International Conference on Computational Structures Technology

Conference Date: SEP 04-06, 2002

Conference Location: PRAGUE, CZECH REPUBLIC

Conference Host: CZECH TECH UNIV, FAC CIVIL ENGN

ISSN: 0965-9978

Record 220 of 495

Title: Superconvergence of tetrahedral quadratic finite elements

Author(s): Brandts, J (Brandts, J); Krizek, M (Krizek, M)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 23 **Issue:** 1 **Pages:** 27-36 **Published:** JAN 2005

ISSN: 0254-9409

Record 221 of 495

Title: $L_2(H^1)$ norm a posteriori error estimation for discontinuous Galerkin approximations of reactive transport problems

Author(s): Sun, SY (Sun, SY); Wheeler, M (Wheeler, M)

Source: JOURNAL OF SCIENTIFIC COMPUTING **Volume:** 22-3 **Issue:** 1 **Pages:** 501-530 **DOI:** 10.1007/s10915-004-4148-2 **Published:** JAN 2005

ISSN: 0885-7474

Record 222 of 495

Title: A multiscale a posteriori error estimate

Author(s): Araya, R (Araya, R); Valentin, F (Valentin, F)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 194 **Issue:** 18-20 **Pages:** 2077-2094 **DOI:** 10.1016/j.cma.2004.07.012 **Published:** 2005

ISSN: 0045-7825

Record 223 of 495

Title: 3D anisotropic mesh adaptation by mesh modification

Author(s): Li, XR (Li, XR); Shephard, MS (Shephard, MS); Beall, MW (Beall, MW)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 194 **Issue:** 48-49 **Pages:** 4915-4950 **DOI:** 10.1016/j.cma.2004.11.019 **Published:** 2005

ISSN: 0045-7825

Record 224 of 495

Title: CLASSICAL DESCRIPTION OF NONADIABATIC QUANTUM DYNAMICS

Author(s): Stock, G (Stock, Gerhard); Thoss, M (Thoss, Michael)

Editor(s): Rice SA

Source: ADVANCES IN CHEMICAL PHYSICS, VOL 131 **Book Series:** ADVANCES IN CHEMICAL PHYSICS **Volume:** 131 **Pages:** 243-375 **DOI:** 10.1002/0471739464.ch5 **Published:** 2005

ISSN: 0065-2385

ISBN: 978-0-471-44526-5

Record 225 of 495

Title: amatos: Parallel adaptive mesh generator for atmospheric and oceanic simulation

Author(s): Behrens, J (Behrens, J); Rakowsky, N (Rakowsky, N); Hiller, W (Hiller, W); Handorf, D (Handorf, D); Lauter, M (Lauter, M); Papke, J (Papke, J); Dethloff, K (Dethloff, K)

Source: OCEAN MODELLING **Volume:** 10 **Issue:** 1-2 **Pages:** 171-183 **DOI:** 10.1016/j.ocemod.2004.06.003 **Published:** 2005

ISSN: 1463-5003

Record 226 of 495

Title: Implicit-explicit time integration in multibody dynamics

Author(s): Arnold, M (Arnold, Martin); Hippmann, G (Hippmann, Gerhard)

Book Group Author(s): ASME

Source: PROCEEDINGS OF THE ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE, VOL 6, PTS A-C **Pages:** 167-176 **Published:** 2005

Conference: 5th International Conference on Multibody Systems, Nonlinear Dynamics, and Control Long Beach, CA SEP 24-28, 2005 ASME, Design Engn Div ASME, Comp & Informat Engn Div

Conference Title: 5th International Conference on Multibody Systems, Nonlinear Dynamics, and Control

Conference Date: SEP 24-28, 2005

Conference Location: Long Beach, CA

Conference Sponsor(s): ASME, Design Engn Div, ASME, Comp & Informat Engn Div

ISBN: 0-7918-4743-8

Record 227 of 495

Title: Wind field simulation using adaptive tetrahedral meshes

Author(s): Montenegro, R (Montenegro, R.); Montero, G (Montero, G.); Escobar, JM (Escobar, J. M.); Rodriguez, E (Rodriguez, E.); Gonzalez-Yuste, JM (Gonzalez-Yuste, J. M.)

Editor(s): Topping BHV

Source: Innovation in Civil and Structural Engineering Computing **Pages:** 159-185 **Published:** 2005

Conference: 10th Int Conf on Civil, Structural and Environmental Engineering Computing (Civil-Comp 2005)/8th Int Conf on the Application of Artificial Intelligence to Civil, Structural and Environmental Engineering (AICivil-Comp 2005) Rome, ITALY AUG 30-SEP 02, 2005

Conference Title: 10th Int Conf on Civil, Structural and Environmental Engineering Computing (Civil-Comp 2005)/8th Int Conf on the Application of Artificial Intelligence to Civil, Structural and Environmental Engineering (AICivil-Comp 2005)

Conference Date: AUG 30-SEP 02, 2005

Conference Location: Rome, ITALY

ISBN: 978-1-874672-24-1

Record 228 of 495

Title: On the convergence of a cascadic multigrid method for semilinear elliptic problem

Author(s): Zhou, SZ (Zhou, SZ); Hu, HX (Hu, HX)

Source: APPLIED MATHEMATICS AND COMPUTATION **Volume:** 159 **Issue:** 2 **Pages:** 407-417 **DOI:** 10.1016/j.ainc.2003.10.022 **Published:** DEC 6 2004

ISSN: 0096-3003

Record 229 of 495

Title: Cascadic multigrid for finite volume methods for elliptic problems

Author(s): Shi, ZC (Shi, ZC); Xu, XJ (Xu, XJ); Man, HY (Man, HY)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 22 **Issue:** 6 **Pages:** 905-920 **Published:** NOV 2004

ISSN: 0254-9409

Record 230 of 495

Title: Extracting macroscopic dynamics: model problems and algorithms

Author(s): Givon, D (Givon, D); Kupferman, R (Kupferman, R); Stuart, A (Stuart, A)

Source: NONLINEARITY **Volume:** 17 **Issue:** 6 **Pages:** R55-R127 **Article Number:** **DOI:** 10.1088/0951-7715/17/6/R01 **Published:** NOV 2004

ISSN: 0951-7715

Record 231 of 495

Title: A temperature-dependent Hartree approach for excess proton transport in hydrogen-bonded chains

Author(s): Cukier, RI (Cukier, RI)

Source: CHEMICAL PHYSICS **Volume:** 305 **Issue:** 1-3 **Pages:** 197-211 **DOI:** 10.1016/j.chemphys.2004.06.060 **Published:** OCT 25 2004

ISSN: 0301-0104

Record 232 of 495

Title: Statistical mechanics of mean field Ehrenfest quantum/classical molecular dynamics: The damped harmonic oscillator

Author(s): Kab, G (Kab, G)

Source: JOURNAL OF PHYSICAL CHEMISTRY A **Volume:** 108 **Issue:** 41 **Pages:** 8866-8877 **DOI:** 10.1021/jp048891a **Published:** OCT 14 2004

ISSN: 1089-5639

Record 233 of 495

Title: Numerical computation of constant mean curvature surfaces using finite elements

Author(s): Metzger, J (Metzger, J)

Source: CLASSICAL AND QUANTUM GRAVITY **Volume:** 21 **Issue:** 19 **Pages:** 4625-4646 **Article Number:** **DOI:** 10.1088/0264-9381/21/19/010 **Published:** OCT 7 2004

Record 234 of 495

Title: Local refinement of 3-D triangulations using object-oriented methods

Author(s): Gonzalez-Yuste, JM (Gonzalez-Yuste, JM); Montenegro, R (Montenegro, R); Escobar, JM (Escobar, JM); Montero, G (Montero, G); Rodriguez, E (Rodriguez, E)

Source: ADVANCES IN ENGINEERING SOFTWARE **Volume:** 35 **Issue:** 10-11 **Pages:** 693-702 **DOI:** 10.1016/j.advengsoft.2004.07.003 **Published:** OCT-NOV 2004

Conference: 3rd International Conference on Engineering Computational Technology CZECH TECH UNIV, FAC CIVIL ENGN, PRAGUE, CZECH REPUBLIC SEP 04-06, 2002 CZECH TECH UNIV, FAC CIVIL ENGN

Conference Title: 3rd International Conference on Engineering Computational Technology

Conference Date: SEP 04-06, 2002

Conference Location: PRAGUE, CZECH REPUBLIC

Conference Host: CZECH TECH UNIV, FAC CIVIL ENGN

ISSN: 0965-9978

Record 235 of 495

Title: Developing of an expert system for nonferrous alloy design

Author(s): Li, YB (Li, YB); He, HB (He, HB); Zhou, JC (Zhou, JC); Li, B (Li, B)

Source: TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA **Volume:** 14 **Issue:** 4 **Pages:** 645-648 **Published:** AUG 2004

ISSN: 1003-6326

Record 236 of 495

Title: Numerical methods for atomic quantum gases with applications to Bose-Einstein condensates and to ultracold fermions

Author(s): Minguzzi, A (Minguzzi, A); Succi, S (Succi, S); Toschi, F (Toschi, F); Tosi, MP (Tosi, MP); Vignolo, P (Vignolo, P)

Source: PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS **Volume:** 395 **Issue:** 4-5 **Pages:** 223-355 **DOI:** 10.1016/j.physrep.2004.02.001 **Published:** JUN 2004

ISSN: 0370-1573

Record 237 of 495

Title: Semiclassical analysis of constrained quantum systems

Author(s): Dell'Antonio, GF (Dell'Antonio, GF); Tenuta, L (Tenuta, L)

Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL **Volume:** 37 **Issue:** 21 **Pages:** 5605-5624 **Article Number:** **DOI:** 10.1088/0305-4470/37/21/007 **Published:** MAY 28 2004

ISSN: 0305-4470

Record 238 of 495

Title: Fully adaptive propagation of the quantum-classical Liouville equation

Author(s): Horenko, I (Horenko, I); Weiser, M (Weiser, M); Schmidt, B (Schmidt, B); Schutte, C (Schutte, C)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 120 **Issue:** 19 **Pages:** 8913-8923 **DOI:** 10.1063/1.1691015 **Published:** MAY 15 2004

ISSN: 0021-9606

Record 239 of 495

Title: Transition to hydrodynamics in colliding fermion clouds

Author(s): Toschi, F (Toschi, F); Capuzzi, P (Capuzzi, P); Succi, S (Succi, S); Vignolo, P (Vignolo, P); Tosi, MP (Tosi, MP)

Source: JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS **Volume:** 37 **Issue:**

7 **Pages:** S91-S99 **Article Number:** **DOI:** 10.1088/0953-4075/37/7/056 **Published:** APR 14 2004

Conference: International Workshop on Theory of Quantum Gases and Quantum Coherence Levico, Italy JUN 12-14, 2003 European Sci Fdn

Conference Title: International Workshop on Theory of Quantum Gases and Quantum Coherence

Conference Date: JUN 12-14, 2003

Conference Location: Levico, Italy

Conference Sponsor(s): European Sci Fdn

ISSN: 0953-4075

Record 240 of 495

Title: High-order adaptive time-domain solution of nonlinear coupled electromagnetic-thermal problems

Author(s): Badics, Z (Badics, Z); Ionescu, B (Ionescu, B); Cendes, ZJ (Cendes, ZJ)

Source: IEEE TRANSACTIONS ON MAGNETICS **Volume:** 40 **Issue:** 2 **Pages:** 1274-1277 **DOI:** 10.1109/TMAG.2004.824733 **Part:** Part 2 **Published:** MAR 2004

Conference: 14th Annual Conference on the Computation of Electromagnetic Fields (COMPUMAG 2003) Saratoga Springs, NY JUL 13-17, 2003

Conference Title: 14th Annual Conference on the Computation of Electromagnetic Fields (COMPUMAG 2003)

Conference Date: JUL 13-17, 2003

Conference Location: Saratoga Springs, NY

ISSN: 0018-9464

Record 241 of 495

Title: Finite element basis functions for nested meshes of nonuniform refinement level

Author(s): Hill, V (Hill, V); Farle, O (Farle, O); Dyczij-Edlinger, R (Dyczij-Edlinger, R)

Source: IEEE TRANSACTIONS ON MAGNETICS **Volume:** 40 **Issue:** 2 **Pages:** 981-984 **DOI:** 10.1109/TMAG.2004.825149 **Part:** Part 2 **Published:** MAR 2004

Conference: 14th Annual Conference on the Computation of Electromagnetic Fields (COMPUMAG 2003) Saratoga Springs, NY JUL 13-17, 2003

Conference Title: 14th Annual Conference on the Computation of Electromagnetic Fields (COMPUMAG 2003)

Conference Date: JUL 13-17, 2003

Conference Location: Saratoga Springs, NY

ISSN: 0018-9464

Record 242 of 495

Title: Energy-conserving integration of constrained Hamiltonian systems - a comparison of approaches

Author(s): Leyendecker, S (Leyendecker, S); Betsch, P (Betsch, P); Steinmann, P (Steinmann, P)

Source: COMPUTATIONAL MECHANICS **Volume:** 33 **Issue:** 3 **Pages:** 174-185 **DOI:** 10.1007/s00466-003-0516-2 **Published:** FEB 2004

ISSN: 0178-7675

Record 243 of 495

Title: A multilevel successive iteration method for nonlinear elliptic problems

Author(s): Huang, YQ (Huang, YQ); Shi, ZC (Shi, ZC); Tang, T (Tang, T); Xue, WM (Xue, WM)

Source: MATHEMATICS OF COMPUTATION **Volume:** 73 **Issue:** 246 **Pages:** 525-539 **Published:** 2004

ISSN: 0025-5718

Record 244 of 495

Title: Asynchronous fast adaptive composite-grid methods for elliptic problems: Theoretical foundations

Author(s): Lee, B (Lee, B); McCormick, SF (McCormick, SF); Philip, B (Philip, B); Quinlan, DJ (Quinlan, DJ)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 42 **Issue:** 1 **Pages:** 130-152 **DOI:**

10.1137/S0036142902400767 **Published:** 2004

ISSN: 0036-1429

Record 245 of 495

Title: A local a posteriori error estimator based on equilibrated fluxes

Author(s): Luce, R (Luce, R); Wohlmuth, BI (Wohlmuth, BI)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 42 **Issue:** 4 **Pages:** 1394-1414 **DOI:** 10.1137/S0036142903433790 **Published:** 2004

ISSN: 0036-1429

Record 246 of 495

Title: Introduction - Background

Author(s): Neuenschwander, D (Neuenschwander, D)

Source: PROBABILISTIC AND STATISTICAL METHODES IN CRYPTOLOGY: INTRODUCTION BY SELECTED TOPICS **Book Series:** Lecture Notes in Computer Science **Volume:** 3028 **Pages:** 1-155 **Published:** 2004

ISSN: 0302-9743

ISBN: 3-540-22001-1

Record 247 of 495

Title: Primality testing in polynomial time

Author(s): Dietzfelbinger, O (Dietzfelbinger, O)

Source: PRIMALITY TESTING IN POLYNOMIAL TIME: FROM RANDOMIZED ALGORITHMS TO "PRIMES IS IN P" **Book Series:** Lecture Notes in Computer Science **Volume:** 3000 **Pages:** VII-+ **Published:** 2004

ISSN: 0302-9743

ISBN: 3-540-40344-2

Record 248 of 495

Title: Long-time-step integrators for almost-adiabatic quantum dynamics

Author(s): Jahnke, T (Jahnke, T)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 25 **Issue:** 6 **Pages:** 2145-2164 **DOI:** 10.1137/S1064827502411316 **Published:** 2004

ISSN: 1064-8275

Record 249 of 495

Title: Cascadic multigrid method for isoparametric finite element with numerical integration

Author(s): Bi, CJ (Bi, CJ); Li, LK (Li, LK)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 22 **Issue:** 1 **Pages:** 123-136 **Published:** JAN 2004

ISSN: 0254-9409

Record 250 of 495

Title: An averaging principle for fast degrees of freedom exhibiting long-term correlations

Author(s): Schutte, C (Schutte, C); Walter, J (Walter, J); Hartmann, C (Hartmann, C); Huisinga, W (Huisinga, W)

Source: MULTISCALE MODELING & SIMULATION **Volume:** 2 **Issue:** 3 **Pages:** 501-526 **DOI:** 10.1137/030600308 **Published:** 2004

ISSN: 1540-3459

Record 251 of 495

Title: Challenges in numerical computation

Author(s): Laurie, D (Laurie, D); Waldvogel, J (Waldvogel, J); Bornemann, F (Bornemann, F); Wagon, S (Wagon, S)

Editor(s): Simos TE; Tsitouras C

Source: ICNAAM 2004: INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2004 **Pages:** 232-234 **Published:** 2004

Conference: International Conference of Numerical Analysis and Applied Mathematics Technol Educ Inst Chalkis, Chalkis, GREECE SEP 10-14, 2004 Technol Educ Inst Chalkis European Soc Computat Methods Sci & Engn

Conference Title: International Conference of Numerical Analysis and Applied Mathematics

Conference Date: SEP 10-14, 2004

Conference Location: Chalkis, GREECE

Conference Sponsor(s): European Soc Computat Methods Sci & Engn

Conference Host: Technol Educ Inst Chalkis

ISBN: 3-527-40563-1

Record 252 of 495

Title: Extended Hellmann-Feynman forces, canonical representations, and exponential propagators in the mixed quantum-classical molecular dynamics

Author(s): Grochowski, P (Grochowski, P); Lesyng, B (Lesyng, B)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 119 **Issue:** 22 **Pages:** 11541-11555 **DOI:** 10.1063/1.1624062 **Published:** DEC 8 2003

ISSN: 0021-9606

Record 253 of 495

Title: Adaptive integration of molecular dynamics

Author(s): Horenko, I (Horenko, I); Weiser, M (Weiser, M)

Source: JOURNAL OF COMPUTATIONAL CHEMISTRY **Volume:** 24 **Issue:** 15 **Pages:** 1921-1929 **DOI:** 10.1002/jcc.10335 **Published:** NOV 30 2003

ISSN: 0192-8651

Record 254 of 495

Title: Optimal reduced dimensional representation of classical molecular dynamics

Author(s): Dey, BK (Dey, BK); Rabitz, H (Rabitz, H); Askar, A (Askar, A)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 119 **Issue:** 11 **Pages:** 5379-5387 **DOI:** 10.1063/1.1599349 **Published:** SEP 15 2003

ISSN: 0021-9606

Record 255 of 495

Title: Adaptive multigrid for Helmholtz problems

Author(s): Bartsch, G (Bartsch, G); Wulf, C (Wulf, C)

Source: JOURNAL OF COMPUTATIONAL ACOUSTICS **Volume:** 11 **Issue:** 3 **Pages:** 341-350 **DOI:** 10.1142/S0218396X03001997 **Published:** SEP 2003

Conference: International Congress of Theoretical and Computational Acoustics BEIJING, PEOPLES R CHINA MAY 21-25, 2001

Conference Title: International Congress of Theoretical and Computational Acoustics

Conference Date: MAY 21-25, 2001

Conference Location: BEIJING, PEOPLES R CHINA

ISSN: 0218-396X

Record 256 of 495

Title: Constrained wave equations and wave maps

Author(s): Shatah, J (Shatah, J); Zeng, CC (Zeng, CC)

Source: COMMUNICATIONS IN MATHEMATICAL PHYSICS **Volume:** 239 **Issue:** 3 **Pages:** 383-404 **DOI:** 10.1007/s00220-003-0887-4 **Published:** AUG 2003

ISSN: 0010-3616

Record 257 of 495

Title: A two-dimensional moving finite element method with local refinement based on a posteriori error estimates

Author(s): Lang, J (Lang, J); Cao, WM (Cao, WM); Huang, WZ (Huang, WZ); Russell, RD (Russell, RD)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 46 **Issue:** 1 **Pages:** 75-94 **DOI:** 10.1016/S0168-9274(03)00013-8 **Published:** JUL 2003

ISSN: 0168-9274

Record 258 of 495

Title: Adaptive wavelet methods for elliptic operator equations with nonlinear terms

Author(s): Xu, YS (Xu, YS); Zou, QS (Zou, QS)

Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 19 **Issue:** 1-3 **Pages:** 99-146 **DOI:** 10.1023/A:1022816511874 **Published:** JUL 2003

Conference: International Conference on Computational Mathematics POHANG UNIV SCI & TECHNOL, POHANG, SOUTH KOREA JUL 02-05, 2001 POHANG UNIV SCI & TECHNOL

Conference Title: International Conference on Computational Mathematics

Conference Date: JUL 02-05, 2001

Conference Location: POHANG, SOUTH KOREA

Conference Host: POHANG UNIV SCI & TECHNOL

ISSN: 1019-7168

Record 259 of 495

Title: Nested grid iteration for incompressible viscous flow and transport

Author(s): Kirk, B (Kirk, B); Lipnikov, K (Lipnikov, K); Carey, GF (Carey, GF)

Source: INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS **Volume:** 17 **Issue:** 4 **Pages:** 253-262 **DOI:** 10.1080/1061856031000173635 **Published:** JUL 2003

ISSN: 1061-8562

Record 260 of 495

Title: Shortcomings in computational chemistry

Author(s): Berthier, G (Berthier, G); Defranceschi, M (Defranceschi, M); Le Bris, C (Le Bris, C)

Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY **Volume:** 93 **Issue:** 3 **Pages:** 156-165 **DOI:** 10.1002/qua.10550 **Published:** JUN 5 2003

ISSN: 0020-7608

Record 261 of 495

Title: A stabilized multilevel vector finite-element solver for time-harmonic electromagnetic waves

Author(s): Hill, V (Hill, V); Farle, O (Farle, O); Dyczij-Edlinger, R (Dyczij-Edlinger, R)

Source: IEEE TRANSACTIONS ON MAGNETICS **Volume:** 39 **Issue:** 3 **Pages:** 1203-1206 **DOI:** 10.1109/TMAG.2003.810379 **Part:** Part 1 **Published:** MAY 2003

Conference: 10th IEEE Biennial Conference on Electromagnetic Field Computation (CEFC 02) PERUGIA, ITALY JUN

16-19, 2002

Conference Title: 10th IEEE Biennial Conference on Electromagnetic Field Computation (CEFC 02)

Conference Date: JUN 16-19, 2002

Conference Location: PERUGIA, ITALY

ISSN: 0018-9464

Record 262 of 495

Title: On the relevance of accounting for the evolution of the fractal dimension in aerosol process simulations

Author(s): Artelt, C (Artelt, C); Schmid, HJ (Schmid, HJ); Peukert, W (Peukert, W)

Source: JOURNAL OF AEROSOL SCIENCE **Volume:** 34 **Issue:** 5 **Pages:** 511-534 **DOI:** 10.1016/S0021-8502(03)00005-3 **Published:** MAY 2003

ISSN: 0021-8502

Record 263 of 495

Title: Numerical integrators for quantum dynamics close to the adiabatic limit

Author(s): Jahnke, T (Jahnke, T); Lubich, C (Lubich, C)

Source: NUMERISCHE MATHEMATIK **Volume:** 94 **Issue:** 2 **Pages:** 289-314 **DOI:** 10.1007/s00211-002-0421-1 **Published:** APR 2003

ISSN: 0029-599X

Record 264 of 495

Title: A variational framework for Retinex

Author(s): Kimmel, R (Kimmel, R); Elad, M (Elad, M); Shaked, D (Shaked, D); Keshet, R (Keshet, R); Sobel, I (Sobel, I)

Source: INTERNATIONAL JOURNAL OF COMPUTER VISION **Volume:** 52 **Issue:** 1 **Pages:** 7-23 **DOI:** 10.1023/A:1022314423998 **Published:** APR 2003

ISSN: 0920-5691

Record 265 of 495

Title: Symplectic analytically integrable decomposition algorithms: classification, derivation, and application to molecular dynamics, quantum and celestial mechanics simulations

Author(s): Omelyan, IP (Omelyan, IP); Mryglod, IM (Mryglod, IM); Folk, R (Folk, R)

Source: COMPUTER PHYSICS COMMUNICATIONS **Volume:** 151 **Issue:** 3 **Pages:** 272-314 **DOI:** 10.1016/S0010-4655(02)00754-3 **Published:** APR 1 2003

ISSN: 0010-4655

Record 266 of 495

Title: Rate of convergence for some constraint decomposition methods for nonlinear variational inequalities

Author(s): Tai, XC (Tai, XC)

Source: NUMERISCHE MATHEMATIK **Volume:** 93 **Issue:** 4 **Pages:** 755-786 **DOI:** 10.1007/s002110200404 **Published:** FEB 2003

ISSN: 0029-599X

Record 267 of 495

Title: Singularly perturbed problems in partial differential equations: a survey

Author(s): Kadalbajoo, MK (Kadalbajoo, MK); Patidar, KC (Patidar, KC)

Source: APPLIED MATHEMATICS AND COMPUTATION **Volume:** 134 **Issue:** 2-3 **Pages:** 371-429 **Article Number:** **DOI:** 10.1016/S0096-3003(01)00291-0 **Published:** JAN 25 2003

ISSN: 0096-3003

Record 268 of 495

Title: A computational model for particle size influence on drug absorption during controlled-release colonic delivery

Author(s): Waterman, KC (Waterman, KC); Sutton, SC (Sutton, SC)

Source: JOURNAL OF CONTROLLED RELEASE **Volume:** 86 **Issue:** 2-3 **Pages:** 293-304 **Article Number:** **DOI:** 10.1016/S0168-3659(02)00418-2 **Published:** JAN 17 2003

ISSN: 0168-3659

Record 269 of 495

Title: A general method for implementing vibrationally adiabatic mixed quantum-classical simulations

Author(s): Thompson, WH (Thompson, WH)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 118 **Issue:** 3 **Pages:** 1059-1067 **DOI:** 10.1063/1.1528891 **Published:** JAN 15 2003

ISSN: 0021-9606

Record 270 of 495

Title: Multilevel diagonal scaling preconditioners for boundary element equations on locally refined meshes

Author(s): Ainsworth, M (Ainsworth, M); McLean, W (McLean, W)

Source: NUMERISCHE MATHEMATIK **Volume:** 93 **Issue:** 3 **Pages:** 387-413 **DOI:** 10.1007/s002110100391 **Published:** JAN 2003

ISSN: 0029-599X

Record 271 of 495

Title: Analysis of multilevel methods for eddy current problems

Author(s): Hiptmair, R (Hiptmair, R)

Source: MATHEMATICS OF COMPUTATION **Volume:** 72 **Issue:** 243 **Pages:** 1281-1303 **Published:** 2003

ISSN: 0025-5718

Record 272 of 495

Title: A stable, direct solver for the gradient equation

Author(s): Stevenson, R (Stevenson, R)

Source: MATHEMATICS OF COMPUTATION **Volume:** 72 **Issue:** 241 **Pages:** 41-53 **Published:** 2003

ISSN: 0025-5718

Record 273 of 495

Title: Distance geometry algorithms in molecular modelling of polymer and composite systems

Author(s): Melnik, RVN (Melnik, RVN); Uhlherr, A (Uhlherr, A); Hodgkin, J (Hodgkin, J); de Hoog, F (de Hoog, F)

Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS **Volume:** 45 **Issue:** 1-3 **Pages:** 515-534 **Article Number:** **DOI:** 10.1016/S0898-1221(03)80034-2 **Published:** JAN-FEB 2003

ISSN: 0898-1221

Record 274 of 495

Title: An odyssey into local refinement and multilevel preconditioning III: Implementation and numerical experiments

Author(s): Aksoylu, B (Aksoylu, B); Bond, S (Bond, S); Holst, M (Holst, M)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 25 **Issue:** 2 **Pages:** 478-498 **DOI:** 10.1137/S1064827502407676 **Published:** 2003

Conference: 7th Annual Copper Mountain Conference on Iterative Methods COPPER MT, COLORADO MAR 24-29, 2002 Univ Colorado SIAM

Conference Title: 7th Annual Copper Mountain Conference on Iterative Methods

Conference Date: MAR 24-29, 2002

Conference Location: COPPER MT, COLORADO

Conference Sponsor(s): Univ Colorado, SIAM

ISSN: 1064-8275

Record 275 of 495

Title: On mesh-independent convergence of an inexact Newton-multigrid algorithm

Author(s): Brown, PN (Brown, PN); Vassilevski, PS (Vassilevski, PS); Woodward, CS (Woodward, CS)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 25 **Issue:** 2 **Pages:** 570-590 **DOI:** 10.1137/S1064827502407822 **Published:** 2003

Conference: 7th Annual Copper Mountain Conference on Iterative Methods COPPER MT, COLORADO MAR 24-29, 2002 Univ Colorado SIAM

Conference Title: 7th Annual Copper Mountain Conference on Iterative Methods

Conference Date: MAR 24-29, 2002

Conference Location: COPPER MT, COLORADO

Conference Sponsor(s): Univ Colorado, SIAM

ISSN: 1064-8275

Record 276 of 495

Title: Multiscale and wavelet methods for operator equations

Author(s): Dahmen, W (Dahmen, W)

Editor(s): Bramble JH; Dahmen W; Cohen A

Source: MULTISCALE PROBLEMS AND METHODS IN NUMERICAL SIMULATIONS **Book Series:** LECTURE NOTES IN MATHEMATICS **Volume:** 1825 **Pages:** 31-96 **Published:** 2003

Conference: CIME Summer School on Multiscale Problems and Methods in Numerical Simulations MARTINA FRANCA, ITALY SEP 09-15, 2001 CIME

Conference Title: CIME Summer School on Multiscale Problems and Methods in Numerical Simulations

Conference Date: SEP 09-15, 2001

Conference Location: MARTINA FRANCA, ITALY

Conference Sponsor(s): CIME

ISSN: 0075-8434

ISBN: 3-540-20099-1

Record 277 of 495

Title: Hierarchical least squares conformal map

Author(s): Ray, N (Ray, N); Levy, B (Levy, B)

Editor(s): Rokne J; Klein R; Wang W

Source: 11TH PACIFIC CONFERENCE ON COMPUTER GRAPHICS AND APPLICATIONS, PROCEEDINGS **Pages:** 263-270 **DOI:** 10.1109/PCCGA.2003.1238268 **Published:** 2003

Conference: 11th Pacific Conference on Computer Graphics and Applications CANMORE, CANADA OCT 08-10, 2003 Silicon Graph Inc iCore Univ Calgary

Conference Title: 11th Pacific Conference on Computer Graphics and Applications

Conference Date: OCT 08-10, 2003

Conference Location: CANMORE, CANADA

Conference Sponsor(s): Silicon Graph Inc, iCore, Univ Calgary

ISBN: 0-7695-2028-6

Record 278 of 495

Title: Computer algebra algorithms for orthogonal polynomials and special functions

Author(s): Koepf, W (Koepf, W)

Editor(s): Koelink E; VanAssche W

Source: ORTHOGONAL POLYNOMIALS AND SPECIAL FUNCTIONS **Book Series:** LECTURE NOTES IN

MATHEMATICS Volume: 1817 **Pages:** 1-24 **Published:** 2003

Conference: European Summer School on Orthogonal Polynomials and Special Functions KATHOLIEKE UNIV LEUVEN, LEUVEN, BELGIUM AUG 12-16, 2002 KATHOLIEKE UNIV LEUVEN

Conference Title: European Summer School on Orthogonal Polynomials and Special Functions

Conference Date: AUG 12-16, 2002

Conference Location: LEUVEN, BELGIUM

Conference Host: KATHOLIEKE UNIV LEUVEN

ISSN: 0075-8434

ISBN: 3-540-40375-2

Record 279 of 495

Title: An outline of adaptive wavelet Galerkin methods for Tikhonov regularization of inverse parabolic problems

Author(s): Dahlke, S (Dahlke, S); Maass, P (Maass, P)

Editor(s): Hon YC; Yamamoto M; Cheng J; Lee JY

Source: RECENT DEVELOPMENT IN THEORIES & NUMERICS **Pages:** 56-66 **DOI:** 10.1142/9789812704924_0006 **Published:** 2003

Conference: 1st International Conference on Inverse Problems City Univ Hong Kong, Hong Kong, PEOPLES R CHINA JAN 09-12, 2002 City Univ Hong Kong

Conference Title: 1st International Conference on Inverse Problems

Conference Date: JAN 09-12, 2002

Conference Location: Hong Kong, PEOPLES R CHINA

Conference Host: City Univ Hong Kong

ISBN: 981-238-366-2

Record 280 of 495

Title: Quantum-classical Liouville approach to molecular dynamics: Surface hopping Gaussian phase-space packets

Author(s): Horenko, I (Horenko, I); Salzmann, C (Salzmann, C); Schmidt, B (Schmidt, B); Schutte, C (Schutte, C)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 117 **Issue:** 24 **Pages:** 11075-11088 **DOI:** 10.1063/1.1522712 **Published:** DEC 22 2002

ISSN: 0021-9606

Record 281 of 495

Title: Periodic solutions for Hamiltonian systems under strong constraining forces

Author(s): Shatah, J (Shatah, J); Zeng, CC (Zeng, CC)

Source: JOURNAL OF DIFFERENTIAL EQUATIONS **Volume:** 186 **Issue:** 2 **Pages:** 572-585 **Article Number:** **DOI:** 10.1016/S0022-0396(02)00035-9 **Published:** DEC 10 2002

ISSN: 0022-0396

Record 282 of 495

Title: Numerical integration of reaction-diffusion systems

Author(s): Schatzman, M (Schatzman, M)

Source: NUMERICAL ALGORITHMS **Volume:** 31 **Issue:** 1-4 **Pages:** 247-269 **DOI:** 10.1023/A:1021199103644 **Published:** DEC 2002

Conference: 2001 ANODE Workshop AUCKLAND, NEW ZEALAND JAN 03-06, 2001

Conference Title: 2001 ANODE Workshop

Conference Date: JAN 03-06, 2001

Conference Location: AUCKLAND, NEW ZEALAND

ISSN: 1017-1398

Record 283 of 495

Title: A cascadic geometric filtering approach to subdivision

Author(s): Diewald, U (Diewald, U); Morigi, S (Morigi, S); Rumpf, M (Rumpf, M)

Source: COMPUTER AIDED GEOMETRIC DESIGN **Volume:** 19 **Issue:** 9 **Pages:** 675-694 **Article Number:** **DOI:** 10.1016/S0167-8396(02)00150-4 **Published:** DEC 2002

ISSN: 0167-8396

Record 284 of 495

Title: Convergence of finite element approximations and multilevel linearization for Ginzburg-Landau model of d-wave superconductors

Author(s): Huang, YQ (Huang, YQ); Xue, WM (Xue, WM)

Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 17 **Issue:** 4 **Pages:** 309-330 **DOI:** 10.1023/A:1016293508648 **Published:** NOV 2002

ISSN: 1019-7168

Record 285 of 495

Title: Convergent adaptive finite elements for the nonlinear Laplacian

Author(s): Veeseer, A (Veeseer, A)

Source: NUMERISCHE MATHEMATIK **Volume:** 92 **Issue:** 4 **Pages:** 743-770 **DOI:** 10.1007/s002110100377 **Published:** OCT 2002

ISSN: 0029-599X

Record 286 of 495

Title: Mean field Ehrenfest quantum/classical simulation of vibrational energy relaxation in a simple liquid

Author(s): Kab, G (Kab, G)

Source: PHYSICAL REVIEW E **Volume:** 66 **Issue:** 4 **Article Number:** 046117 **DOI:** 10.1103/PhysRevE.66.046117 **Part:** Part 2 **Published:** OCT 2002

ISSN: 1539-3755

Record 287 of 495

Title: A cascadic conjugate gradient algorithm for mass conservative, semi-implicit discretization of the shallow water equations on locally refined structured grids

Author(s): Bonaventura, L (Bonaventura, L); Rosatti, G (Rosatti, G)

Source: INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS **Volume:** 40 **Issue:** 1-2 **Pages:** 217-230 **DOI:** 10.1002/flid.274 **Published:** SEP 10 2002

Conference: ICFD Conference on Numerical Methods for Fluid Dynamics OXFORD, ENGLAND 2001 Inst Computat Fluid Dynam

Conference Title: ICFD Conference on Numerical Methods for Fluid Dynamics

Conference Date: 2001

Conference Location: OXFORD, ENGLAND

Conference Sponsor(s): Inst Computat Fluid Dynam

ISSN: 0271-2091

Record 288 of 495

Title: Construction of high-order force-gradient algorithms for integration of motion in classical and quantum systems

Author(s): Omelyan, IP (Omelyan, IP); Mryglod, IM (Mryglod, IM); Folk, R (Folk, R)

Source: PHYSICAL REVIEW E **Volume:** 66 **Issue:** 2 **Article Number:** 026701 **DOI:** 10.1103/PhysRevE.66.026701 **Part:** Part 2 **Published:** AUG 2002

ISSN: 1539-3755

Record 289 of 495

Title: Three-dimensional adaptive computation of brine transport in porous media

Author(s): Lang, J (Lang, J); Erdmann, B (Erdmann, B)

Source: NUMERICAL HEAT TRANSFER PART A-APPLICATIONS **Volume:** 42 **Issue:** 1-2 **Pages:** 107-119 **DOI:** 10.1080/10407780290059459 **Published:** JUL 2002

Conference: 2nd International Symposium on Advances in Computational Heat Transfer PALM COVE, AUSTRALIA MAY 20-25, 2001 Int Ctr Heat & Mass Transfer Univ New S Wales, Computat Fluid Dynam Res Lab

Conference Title: 2nd International Symposium on Advances in Computational Heat Transfer

Conference Date: MAY 20-25, 2001

Conference Location: PALM COVE, AUSTRALIA

Conference Sponsor(s): Int Ctr Heat & Mass Transfer, Univ New S Wales, Computat Fluid Dynam Res Lab

ISSN: 1040-7782

Record 290 of 495

Title: A posteriori error estimation for elliptic eigenproblems

Author(s): Neymeyr, K (Neymeyr, K)

Source: NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS **Volume:** 9 **Issue:** 4 **Pages:** 263-279 **DOI:** 10.1002/nla.272 **Published:** JUN 2002

ISSN: 1070-5325

Record 291 of 495

Title: Electronic excitations and the compressibility of deuterium

Author(s): Gygi, F (Gygi, F); Galli, G (Galli, G)

Source: PHYSICAL REVIEW B **Volume:** 65 **Issue:** 22 **Article Number:** 220102 **DOI:** 10.1103/PhysRevB.65.220102 **Published:** JUN 1 2002

ISSN: 1098-0121

Record 292 of 495

Title: A strong operator topology adiabatic theorem

Author(s): Elgart, A (Elgart, A); Schenker, JH (Schenker, JH)

Source: REVIEWS IN MATHEMATICAL PHYSICS **Volume:** 14 **Issue:** 6 **Pages:** 569-584 **DOI:** 10.1142/S0129055X02001247 **Published:** JUN 2002

ISSN: 0129-055X

Record 293 of 495

Title: A weakly overlapping domain decomposition preconditioner for the finite element solution of elliptic partial differential equations

Author(s): Bank, RE (Bank, RE); Jimack, PK (Jimack, PK); Nadeem, SA (Nadeem, SA); Nepomnyaschikh, SV (Nepomnyaschikh, SV)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 23 **Issue:** 6 **Pages:** 1817-1841 **Article Number:** **DOI:** 10.1137/S1064827501361425 **Published:** MAY 17 2002

ISSN: 1064-8275

Record 294 of 495

Title: Nonconforming finite elements and the cascadic multi-grid method

Author(s): Stevenson, R (Stevenson, R)

Source: NUMERISCHE MATHEMATIK **Volume:** 91 **Issue:** 2 **Pages:** 351-387 **DOI:** 10.1007/s002110100344 **Published:** APR 2002

ISSN: 0029-599X

Record 295 of 495

Title: Gradient systems with wiggly energies and related averaging problems

Author(s): Menon, G (Menon, G)

Source: ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS **Volume:** 162 **Issue:** 3 **Pages:** 193-246 **DOI:** 10.1007/s002050200189 **Published:** APR 2002

ISSN: 0003-9527

Record 296 of 495

Title: Small data oscillation implies the saturation assumption

Author(s): Dorfler, W (Dorfler, W); Nochetto, RH (Nochetto, RH)

Source: NUMERISCHE MATHEMATIK **Volume:** 91 **Issue:** 1 **Pages:** 1-12 **DOI:** 10.1007/s002110100321 **Published:** MAR 2002

ISSN: 0029-599X

Record 297 of 495

Title: Least-squares Galerkin methods for parabolic problems II: The fully discrete case and adaptive algorithms

Author(s): Majidi, M (Majidi, M); Starke, G (Starke, G)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 39 **Issue:** 5 **Pages:** 1648-1666 **DOI:** 10.1137/S0036142900379461 **Published:** JAN 14 2002

ISSN: 0036-1429

Record 298 of 495

Title: Multigrid methods: from geometrical to algebraic versions

Author(s): Haase, G (Haase, G); Langer, U (Langer, U)

Editor(s): Bourlioux A; Gander MJ; Sabidussi G

Source: MODERN METHODS IN SCIENTIFIC COMPUTING AND APPLICATIONS **Book Series:** NATO SCIENCE SERIES, SERIES II: MATHEMATICS, PHYSICS AND CHEMISTRY **Volume:** 75 **Pages:** 103-153 **Published:** 2002

Conference: Seminar on Modern Methods in Scientific Computing and Applications MONTREAL, CANADA JUL 09-20, 2001 NATO Adv Study Inst Math Superieures

Conference Title: Seminar on Modern Methods in Scientific Computing and Applications

Conference Date: JUL 09-20, 2001

Conference Location: MONTREAL, CANADA

Conference Sponsor(s): NATO Adv Study Inst, Math Superieures

ISBN: 1-4020-0781-7

Record 299 of 495

Title: A subspace cascadic multigrid method for mortar elements

Author(s): Braess, D (Braess, D); Deuffhard, P (Deuffhard, P); Lipnikov, K (Lipnikov, K)

Source: COMPUTING **Volume:** 69 **Issue:** 3 **Pages:** 205-225 **DOI:** 10.1007/s00607-002-1460-2 **Published:** 2002

ISSN: 0010-485X

Record 300 of 495

Title: Adaptive nonlinear elastic FEM for realistic prediction of soft tissue in craniofacial surgery simulations

Author(s): Gladilin, E (Gladilin, E); Zachow, S (Zachow, S); Deuffhard, P (Deuffhard, P); Hege, HC (Hege, HC)

Editor(s): Mun SK

Source: MEDICAL IMAGING 2002: VISUALIZATION, IMAGE-GUIDED PROCEDURES, AND DISPLAY **Book Series:** PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) **Volume:** 4681 **Pages:** 1-8 **DOI:** 10.1117/12.466906 **Published:** 2002

Conference: Medical Imaging 2002 Conference SAN DIEGO, CA FEB 24-28, 2002 SPIE Amer Assoc Phys Med Amer Physiol Soc FDA Ctr Devices & Radiol Hlth Soc Imaging Sci & Technol Natl Elect Mfg Assoc, Diagnost Imaging & Therapy Syst Div Radiol Soc N Amer Soc Comp Applicat Radiol

Conference Title: Medical Imaging 2002 Conference

Conference Date: FEB 24-28, 2002

Conference Location: SAN DIEGO, CA

Conference Sponsor(s): SPIE, Amer Assoc Phys Med, Amer Physiol Soc, FDA Ctr Devices & Radiol Hlth, Soc Imaging Sci & Technol, Natl Elect Mfg Assoc, Diagnost Imaging & Therapy Syst Div, Radiol Soc N Amer, Soc Comp Applicat Radiol

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Title: A posteriori error estimators for elliptic equations with discontinuous coefficients

Author(s): Petzoldt, M (Petzoldt, M)

Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 16 **Issue:** 1 **Pages:** 47-75 **DOI:** 10.1023/A:1014221125034 **Published:** JAN 2002

ISSN: 1019-7168

Record 302 of 495

Title: Some multilevel methods on graded meshes

Author(s): Jung, M (Jung, M); Nicaise, S (Nicaise, S); Tabka, J (Tabka, J)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 138 **Issue:** 1 **Pages:** 151-171 **DOI:** 10.1016/S0377-0427(01)00354-5 **Published:** JAN 1 2002

ISSN: 0377-0427

Record 303 of 495

Title: Quasi-static finite-element analysis of a skewed microstrip crossover

Author(s): Nyka, K (Nyka, K); Mrozowski, M (Mrozowski, M)

Source: IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS **Volume:** 12 **Issue:** 1 **Pages:** 12-14 **DOI:** 10.1109/7260.975719 **Published:** JAN 2002

ISSN: 1531-1309

Record 304 of 495

Title: Domain decomposition preconditioning for parallel PDE software

Author(s): Jimack, PK (Jimack, PK)

Editor(s): Topping BHV; Bittnar Z

Source: ENGINEERING COMPUTATIONAL TECHNOLOGY **Pages:** 193-219 **Published:** 2002

Conference: 3rd International Conference on Engineering Computational Technology CZECH TECH UNIV, FAC CIVIL ENGN, PRAGUE, CZECH REPUBLIC SEP 04-06, 2002 CZECH TECH UNIV, FAC CIVIL ENGN

Conference Title: 3rd International Conference on Engineering Computational Technology

Conference Date: SEP 04-06, 2002

Conference Location: PRAGUE, CZECH REPUBLIC

Conference Host: CZECH TECH UNIV, FAC CIVIL ENGN

ISBN: 1-874672-17-2

Record 305 of 495

Title: Quick finite element quasi-static analysis of coplanar waveguide discontinuities

Author(s): Nyka, K (Nyka, K); Mrozowski, M (Mrozowski, M)

Book Group Author(s): PIT

Source: MIKON-2002: XIV INTERNATIONAL CONFERENCE ON MICROWAVES, RADAR AND WIRELESS COMMUNICATIONS, VOLS 1-3, PROCEEDINGS **Pages:** 361-364 **Published:** 2002

Conference: 14th International Conference on Microwaves, Radar and Wireless Communications (MIKON-2002) GDANSK, POLAND MAY 20-22, 2002 Polish Acad Sci Polish Minist Econom State Comm Sci Res IEEE MTT AES & ED Soc AES/AP/MTT, IEEE Poland Sect, Joint Chapter

Conference Title: 14th International Conference on Microwaves, Radar and Wireless Communications (MIKON-2002)

Conference Date: MAY 20-22, 2002

Conference Location: GDANSK, POLAND

Conference Sponsor(s): Polish Acad Sci, Polish Minist Econom, State Comm Sci Res, IEEE MTT AES & ED Soc, AES/AP/MTT, IEEE Poland Sect, Joint Chapter

ISBN: 83-906662-5-1

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Title: Adaptive multigrid for Helmholtz problems

Author(s): Bartsch, G (Bartsch, G); Wulf, C (Wulf, C)

Editor(s): Shang EC; Li Q; Gao TF

Source: THEORETICAL AND COMPUTATIONAL ACOUSTICS 2001 **Pages:** 535-544 **DOI:**

10.1142/9789812777362_0055 **Published:** 2002

Conference: 5th International Conference on Theoretical and Computational Acoustics Beijing, PEOPLES R CHINA MAY 21-25, 2001 USN Undersea Warfare Ctr US Off Naval Res Inst Acoust Chinese Acad Sci USN Res Lab NATO SACLANT Undersea Res Ctr Scripps Inst Oceanog Osservat Geofis Speriment Trieste Univ Cambridge Yale Univ Harvard Univ Columbia Univ Natl Taiwan Univ Univ Petrol Beijing Bureau Int Cooperat CAS Natl Nat Sci Fdn China Acoust Soc China Environm Technol Lab NOAA

Conference Title: 5th International Conference on Theoretical and Computational Acoustics

Conference Date: MAY 21-25, 2001

Conference Location: Beijing, PEOPLES R CHINA

Conference Sponsor(s): USN Undersea Warfare Ctr, US Off Naval Res, Inst Acoust, Chinese Acad Sci, USN Res Lab, NATO SACLANT Undersea Res Ctr, Scripps Inst Oceanog, Osservat Geofis Speriment Trieste, Univ Cambridge, Yale Univ, Harvard Univ, Columbia Univ, Natl Taiwan Univ, Univ Petrol Beijing, Bureau Int Cooperat, CAS, Natl Nat Sci Fdn China, Acoust Soc China, Environm Technol Lab, NOAA

ISBN: 981-238-012-4

Record 307 of 495

Title: A multigrid method enhanced by Krylov subspace iteration for discrete Helmholtz equations

Author(s): Elman, HC (Elman, HC); Ernst, OG (Ernst, OG); O'Leary, DP (O'Leary, DP)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 23 **Issue:** 4 **Pages:** 1290-1314 **Published:** DEC 18 2001

ISSN: 1064-8275

Record 308 of 495

Title: Penalty method for impact in generalized coordinates

Author(s): Schatzman, M (Schatzman, M)

Source: PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES **Volume:** 359 **Issue:** 1789 **Pages:** 2429-2446 **DOI:** 10.1098/rsta.2001.0859 **Published:** DEC 15 2001

ISSN: 1364-503X

Record 309 of 495

Title: Ab initio molecular dynamics: Propagating the density matrix with Gaussian orbitals. II. Generalizations based on mass-weighting, idempotency, energy conservation and choice of initial conditions

Author(s): Iyengar, SS (Iyengar, SS); Schlegel, HB (Schlegel, HB); Millam, JM (Millam, JM); Voth, GA (Voth, GA); Scuseria, GE (Scuseria, GE); Frisch, MJ (Frisch, MJ)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 115 **Issue:** 22 **Pages:** 10291-10302 **DOI:** 10.1063/1.1416876 **Published:** DEC 8 2001

ISSN: 0021-9606

Record 310 of 495

Title: Least-squares Galerkin methods for parabolic problems I: Semidiscretization in time

Author(s): Majidi, M (Majidi, M); Starke, G (Starke, G)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 39 **Issue:** 4 **Pages:** 1302-1323 **DOI:**

10.1137/S0036142900370125 **Published:** DEC 4 2001

ISSN: 0036-1429

Record 311 of 495

Title: Fourier acceleration of Langevin molecular dynamics

Author(s): Alexander, FJ (Alexander, FJ); Boghosian, BM (Boghosian, BM); Brower, RC (Brower, RC); Kimura, SR (Kimura, SR)

Source: PHYSICAL REVIEW E **Volume:** 64 **Issue:** 6 **Article Number:** 066704 **DOI:**

10.1103/PhysRevE.64.066704 **Part:** Part 2 **Published:** DEC 2001

ISSN: 1539-3755

Record 312 of 495

Title: Adiabatic decoupling and time-dependent Born-Oppenheimer theory

Author(s): Spohn, H (Spohn, H); Teufel, S (Teufel, S)

Source: COMMUNICATIONS IN MATHEMATICAL PHYSICS **Volume:** 224 **Issue:** 1 **Pages:** 113-132 **DOI:**

10.1007/s002200100535 **Published:** NOV 2001

ISSN: 0010-3616

Record 313 of 495

Title: The gradient-finite element method for elliptic problems

Author(s): Farago, I (Farago, I); Karatson, J (Karatson, J)

Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS **Volume:** 42 **Issue:** 8-9 **Pages:** 1043-1053 **DOI:**

10.1016/S0898-1221(01)00220-6 **Published:** OCT-NOV 2001

Conference: 8th International Conference on Numerical Methods and Computational Mechanics (NMCM98) MISKOLC, HUNGARY AUG 24-27, 1998 Janos Bolyal Math Soc Cent European Assoc Computat Mech Hungarian Acad Sci Univ Miskolc

Conference Title: 8th International Conference on Numerical Methods and Computational Mechanics (NMCM98)

Conference Date: AUG 24-27, 1998

Conference Location: MISKOLC, HUNGARY

Conference Sponsor(s): Janos Bolyal Math Soc, Cent European Assoc Computat Mech, Hungarian Acad Sci, Univ Miskolc

ISSN: 0898-1221

Record 314 of 495

Title: Adaptive wavelet schemes for elliptic problems implementation and numerical experiments

Author(s): Barinka, A (Barinka, A); Barsch, T (Barsch, T); Charton, P (Charton, P); Cohen, A (Cohen, A); Dahlke, S (Dahlke, S); Dahmen, W (Dahmen, W); Urban, K (Urban, K)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 23 **Issue:** 3 **Pages:** 910-939 **DOI:**

10.1137/S1064827599365501 **Published:** OCT 1 2001

ISSN: 1064-8275

Record 315 of 495

Title: A theoretical model for molecules interacting with intense laser pulses: The Floquet-based quantum-classical Liouville equation

Author(s): Horenko, I (Horenko, I); Schmidt, B (Schmidt, B); Schutte, C (Schutte, C)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 115 **Issue:** 13 **Pages:** 5733-5743 **DOI:**

10.1063/1.1398577 **Published:** OCT 1 2001

ISSN: 0021-9606

Record 316 of 495

Title: A fast algorithm to find optimal controls of multiantenna applicators in regional hyperthermia

Author(s): Kohler, T (Kohler, T); Maass, P (Maass, P); Wust, P (Wust, P); Seebass, M (Seebass, M)
Source: PHYSICS IN MEDICINE AND BIOLOGY **Volume:** 46 **Issue:** 9 **Pages:** 2503-2514 **DOI:** 10.1088/0031-9155/46/9/318 **Published:** SEP 2001
ISSN: 0031-9155

Record 317 of 495

Title: Realizing holonomic constraints in classical and quantum mechanics
Author(s): Froese, R (Froese, R); Herbst, I (Herbst, I)
Source: COMMUNICATIONS IN MATHEMATICAL PHYSICS **Volume:** 220 **Issue:** 3 **Pages:** 489-535 **DOI:** 10.1007/s002200100454 **Published:** JUL 2001
ISSN: 0010-3616

Record 318 of 495

Title: Coupling overall rotations with modal dynamics
Author(s): Elezgaray, J (Elezgaray, J); Marcou, G (Marcou, G); Sanejouand, YH (Sanejouand, YH)
Source: THEORETICAL CHEMISTRY ACCOUNTS **Volume:** 106 **Issue:** 1-2 **Pages:** 62-68 **DOI:** 10.1007/s002140000215 **Published:** JUN 2001
Conference: 10th International Congress of Quantum Chemistry NICE, FRANCE JUN 13-15, 2000 Soc Francaise Chemie Phys, Div Chem Phys Soc Francaise Phys, Div Chem Phys
Conference Title: 10th International Congress of Quantum Chemistry
Conference Date: JUN 13-15, 2000
Conference Location: NICE, FRANCE
Conference Sponsor(s): Soc Francaise Chemie Phys, Div Chem Phys, Soc Francaise Phys, Div Chem Phys
ISSN: 1432-881X

Record 319 of 495

Title: Local and parallel finite element algorithms based on two-grid discretizations for nonlinear problems
Author(s): Xu, JC (Xu, JC); Zhou, AH (Zhou, AH)
Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 14 **Issue:** 4 **Pages:** 293-327 **DOI:** 10.1023/A:1012284322811 **Published:** MAY 2001
ISSN: 1019-7168

Record 320 of 495

Title: Comparison between the full quantum dynamics and the quantum-semiclassical models to many-particle systems
Author(s): Gao, XL (Gao, XL); Wang, KL (Wang, KL); Xu, F (Xu, F); Shi, YY (Shi, YY)
Source: COMMUNICATIONS IN THEORETICAL PHYSICS **Volume:** 35 **Issue:** 4 **Pages:** 509-512 **Published:** APR 15 2001
ISSN: 0253-6102

Record 321 of 495

Title: Modeling and simulation of crystallization processes using parsival
Author(s): Wulkow, M (Wulkow, M); Gerstlauer, A (Gerstlauer, A); Nieken, U (Nieken, U)
Source: CHEMICAL ENGINEERING SCIENCE **Volume:** 56 **Issue:** 7 **Pages:** 2575-2588 **DOI:** 10.1016/S0009-2509(00)00432-2 **Published:** APR 2001
Conference: Joint Meeting of the 14th International Symposium on Industrial Crystallisation/5th International Symposium on Crystal Growth of Organic Materials ROBINSON COLL, CAMBRIDGE, ENGLAND SEP, 1999 ROBINSON COLL
Conference Title: Joint Meeting of the 14th International Symposium on Industrial Crystallisation/5th International Symposium on Crystal Growth of Organic Materials
Conference Date: SEP, 1999
Conference Location: CAMBRIDGE, ENGLAND

Conference Host: ROBINSON COLL

ISSN: 0009-2509

Record 322 of 495

Title: A posteriori L-2 error estimation on anisotropic tetrahedral finite element meshes

Author(s): Kunert, G (Kunert, G)

Source: IMA JOURNAL OF NUMERICAL ANALYSIS **Volume:** 21 **Issue:** 2 **Pages:** 503-523 **DOI:** 10.1093/imanum/21.2.503 **Published:** APR 2001

ISSN: 0272-4979

Record 323 of 495

Title: Wavelet methods for PDEs - some recent developments

Author(s): Dahmen, W (Dahmen, W)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 128 **Issue:** 1-2 **Special Issue:** SI **Pages:** 133-185 **DOI:** 10.1016/S0377-0427(00)00511-2 **Published:** MAR 1 2001

ISSN: 0377-0427

Record 324 of 495

Title: A detailed numerical study of the evolution of soot particle size distributions in laminar premixed flames

Author(s): Appel, J (Appel, J); Bockhorn, H (Bockhorn, H); Wulkow, M (Wulkow, M)

Source: CHEMOSPHERE **Volume:** 42 **Issue:** 5-7 **Pages:** 635-645 **DOI:** 10.1016/S0045-6535(00)00237-X **Published:** FEB-MAR 2001

Conference: 6th International Congress on Toxic Combustion By-Products UNIV KARLSRUHE, KARLSRUHE, GERMANY JUN 27-30, 1999 UNIV KARLSRUHE

Conference Title: 6th International Congress on Toxic Combustion By-Products

Conference Date: JUN 27-30, 1999

Conference Location: KARLSRUHE, GERMANY

Conference Host: UNIV KARLSRUHE

ISSN: 0045-6535

Record 325 of 495

Title: Adaptive wavelet methods for elliptic operator equations: Convergence rates

Author(s): Cohen, A (Cohen, A); Dahmen, W (Dahmen, W); Devore, R (Devore, R)

Source: MATHEMATICS OF COMPUTATION **Volume:** 70 **Issue:** 233 **Pages:** 27-75 **Published:** JAN 2001

ISSN: 0025-5718

Record 326 of 495

Title: A new cascadic multigrid

Author(s): Shi, ZC (Shi, ZC); Xu, XJ (Xu, XJ)

Source: SCIENCE IN CHINA SERIES A-MATHEMATICS PHYSICS ASTRONOMY **Volume:** 44 **Issue:** 1 **Pages:** 21-30 **DOI:** 10.1007/BF02872279 **Published:** JAN 2001

ISSN: 1006-9283

Record 327 of 495

Title: Validation of linear elastic model for soft tissue simulation in craniofacial surgery

Author(s): Gladilin, E (Gladilin, E); Zachow, S (Zachow, S); Deuflhard, P (Deuflhard, P); Hege, HC (Hege, HC)

Editor(s): Mun SK

Source: MEDICAL IMAGING 2001: VISUALIZATION, DISPLAY, AND IMAGE-GUIDED PROCEDURES **Book Series:** Proceedings of SPIE **Volume:** 2 **Issue:** 24 **Pages:** 27-35 **Published:** 2001

Conference: Medical Imaging 2001 Conference SAN DIEGO, CA FEB 18-22, 2001 SPIE Amer Assoc Physicists Med

Amer Physiol Soc FDA Ctr Devices & Radiol Hlth Soc Imaging Sci & Technol Natl Elect Manufacturers Assoc,
Diagnost Imaging & Therapy Syst Div Radiol Soc N Amer Soc Comp Applicat Radiol

Conference Title: Medical Imaging 2001 Conference

Conference Date: FEB 18-22, 2001

Conference Location: SAN DIEGO, CA

Conference Sponsor(s): SPIE, Amer Assoc Physicists Med, Amer Physiol Soc, FDA Ctr Devices & Radiol Hlth, Soc Imaging Sci & Technol, Natl Elect Manufacturers Assoc, Diagnost Imaging & Therapy Syst Div, Radiol Soc N Amer, Soc Comp Applicat Radiol

ISSN: 0277-786X

ISBN: 0-8194-4005-1

Record 328 of 495

Title: Experience with the solution of a finite difference discretization on sparse grids

Author(s): Hemker, PW (Hemker, PW); Sprengel, F (Sprengel, F)

Editor(s): Vulkov L; Wasniewski J; Yalamov P

Source: NUMERICAL ANALYSIS AND ITS APPLICATIONS **Book Series:** LECTURE NOTES IN COMPUTER SCIENCE **Volume:** 1988 **Pages:** 402-413 **Published:** 2001

Conference: 2nd International Conference on Numerical Analysis and its Applications UNIV ROUSSE, RUSE, BULGARIA JUN 11-15, 2000 UNIV ROUSSE SIAM ILAS Fujitsu Amer Inc Hewlett Packard GmbH Sun Microsyst

Conference Title: 2nd International Conference on Numerical Analysis and its Applications

Conference Date: JUN 11-15, 2000

Conference Location: RUSE, BULGARIA

Conference Sponsor(s): SIAM, ILAS, Fujitsu Amer Inc, Hewlett Packard GmbH, Sun Microsyst

Conference Host: UNIV ROUSSE

ISSN: 0302-9743

ISBN: 3-540-41814-8

Record 329 of 495

Title: An experimental survey of a posteriori Courant finite element error control for the Poisson equation

Author(s): Carstensen, C (Carstensen, C); Bartels, S (Bartels, S); Klose, R (Klose, R)

Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 15 **Issue:** 1-4 **Pages:** 79-106 **DOI:** 10.1023/A:1014269318616 **Published:** 2001

ISSN: 1019-7168

Record 330 of 495

Title: Nonlinear multigrid techniques

Author(s): Kornhuber, R (Kornhuber, R)

Editor(s): Blowey JF; Coleman JP; Craig AW

Source: THEORY AND NUMERICS OF DIFFERENTIAL EQUATIONS **Book Series:** UNIVERSITEXT **Pages:** 179-229 **Published:** 2001

Conference: 9th Engineering-and-Physical-Science-Research-Council Numerical Analysis Summer School DURHAM, ENGLAND JUL 10-21, 2000 Engn Phys Sci Res Council

Conference Title: 9th Engineering-and-Physical-Science-Research-Council Numerical Analysis Summer School

Conference Date: JUL 10-21, 2000

Conference Location: DURHAM, ENGLAND

Conference Sponsor(s): Engn Phys Sci Res Council

ISBN: 3-540-41846-6

Record 331 of 495

Title: Three-dimensional adaptive computation of brine transport in porous media

Author(s): Lang, J (Lang, J); Erdmann, B (Erdmann, B)

Editor(s): Davis GDV; Leonardi E

Source: CHT'01: ADVANCES IN COMPUTATIONAL HEAT TRANSFER II, VOLS 1 AND 2, PROCEEDINGS **Pages:** 1001-1008 **Published:** 2001

Conference: 2nd International Symposium on Advances in Computational Heat Transfer PALM COVE, AUSTRALIA MAY 20-25, 2001 Int Ctr Heat & Mass Transfer Univ New S Wales, Computat Fluid Dynam Res Lab

Conference Title: 2nd International Symposium on Advances in Computational Heat Transfer

Conference Date: MAY 20-25, 2001

Conference Location: PALM COVE, AUSTRALIA

Conference Sponsor(s): Int Ctr Heat & Mass Transfer, Univ New S Wales, Computat Fluid Dynam Res Lab

ISBN: 1-56700-158-0

Record 332 of 495

Title: Analysis and simulation of two-dimensional dopant diffusion in silicon

Author(s): Merz, W (Merz, W); Lang, J (Lang, J)

Editor(s): Hoffmann KH

Source: SMART MATERIALS **Pages:** 83-95 **Published:** 2001

Conference: 1st Caesarium on Smart Materials BONN, GERMANY NOV 17-19, 1999

Conference Title: 1st Caesarium on Smart Materials

Conference Date: NOV 17-19, 1999

Conference Location: BONN, GERMANY

ISBN: 3-540-67957-X

Record 333 of 495

Title: Simulating complex systems without adjustable parameters

Author(s): Parrinello, M (Parrinello, M)

Source: COMPUTING IN SCIENCE & ENGINEERING **Volume:** 2 **Issue:** 6 **Pages:** 22-27 **DOI:** 10.1109/5992.881704 **Published:** NOV-DEC 2000

ISSN: 1521-9615

Record 334 of 495

Title: Least-squares finite element approximations to the Timoshenko beam problem

Author(s): Jou, J (Jou, J); Yang, SY (Yang, SY)

Source: APPLIED MATHEMATICS AND COMPUTATION **Volume:** 115 **Issue:** 1 **Pages:** 63-75 **DOI:** 10.1016/S0096-3003(99)00139-3 **Published:** OCT 6 2000

ISSN: 0096-3003

Record 335 of 495

Title: A cascadic multigrid algorithm for semilinear elliptic problems

Author(s): Timmermann, G (Timmermann, G)

Source: NUMERISCHE MATHEMATIK **Volume:** 86 **Issue:** 4 **Pages:** 717-731 **DOI:** 10.1007/PL00005416 **Published:** OCT 2000

ISSN: 0029-599X

Record 336 of 495

Title: Non-adiabatic dynamics in mixed quantum-classical systems

Author(s): Nielsen, S (Nielsen, S); Kapral, R (Kapral, R); Ciccotti, G (Ciccotti, G)

Source: JOURNAL OF STATISTICAL PHYSICS **Volume:** 101 **Issue:** 1-2 **Pages:** 225-242 **DOI:** 10.1023/A:1026458004345 **Published:** OCT 2000

Conference: NATO Advanced Research Workshop on Nonlinear Science - Dynamics and Stochasticity BRUSSELS,

BELGIUM JUN 30-JUL 03, 1999 NATO Belgian Fed Off Sci Tech & Cultural Affairs European Commiss Fond Nat Rech Sci Fonds Wetenschappelijk Onderzoek ULB

Conference Title: NATO Advanced Research Workshop on Nonlinear Science - Dynamics and Stochasticity

Conference Date: JUN 30-JUL 03, 1999

Conference Location: BRUSSELS, BELGIUM

Conference Sponsor(s): NATO, Belgian Fed Off Sci Tech & Cultural Affairs, European Commiss, Fond Nat Rech Sci, Fonds Wetenschappelijk Onderzoek, ULB

ISSN: 0022-4715

Record 337 of 495

Title: Analysis of a least squares finite element method for the circular arch problem

Author(s): Yang, SY (Yang, SY)

Source: APPLIED MATHEMATICS AND COMPUTATION **Volume:** 114 **Issue:** 2-3 **Pages:** 263-278 **DOI:** 10.1016/S0096-3003(99)00122-8 **Published:** SEP 11 2000

ISSN: 0096-3003

Record 338 of 495

Title: Quantum-dynamical picture of a multistep enzymatic process: Reaction catalyzed by phospholipase A(2)

Author(s): Bala, P (Bala, P); Grochowski, P (Grochowski, P); Nowinski, K (Nowinski, K); Lesyng, B (Lesyng, B); McCammon, JA (McCammon, JA)

Source: BIOPHYSICAL JOURNAL **Volume:** 79 **Issue:** 3 **Pages:** 1253-1262 **Published:** SEP 2000

ISSN: 0006-3495

Record 339 of 495

Title: Cascadic multigrid for parabolic problems

Author(s): Shi, ZC (Shi, ZC); Xu, XJ (Xu, XJ)

Source: JOURNAL OF COMPUTATIONAL MATHEMATICS **Volume:** 18 **Issue:** 5 **Pages:** 551-560 **Published:** SEP 2000

ISSN: 0254-9409

Record 340 of 495

Title: New propagators for quantum-classical molecular dynamics simulations

Author(s): Jiang, H (Jiang, H); Zhao, XS (Zhao, XS)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 113 **Issue:** 3 **Pages:** 930-935 **Article Number:** **DOI:** 10.1063/1.481873 **Published:** JUL 15 2000

ISSN: 0021-9606

Record 341 of 495

Title: Born-Oppenheimer approximation near level crossing

Author(s): Gordon, A (Gordon, A); Avron, JE (Avron, JE)

Source: PHYSICAL REVIEW LETTERS **Volume:** 85 **Issue:** 1 **Pages:** 34-37 **DOI:** 10.1103/PhysRevLett.85.34 **Published:** JUL 3 2000

ISSN: 0031-9007

Record 342 of 495

Title: Local and parallel finite element algorithms based on two-grid discretizations

Author(s): Xu, JC (Xu, JC); Zhou, AH (Zhou, AH)

Source: MATHEMATICS OF COMPUTATION **Volume:** 69 **Issue:** 231 **Pages:** 881-909 **Published:** JUL 2000

ISSN: 0025-5718

Record 343 of 495

Title: Clinical evaluation and verification of the hyperthermia treatment planning system HyperPlan

Author(s): Gellermann, J (Gellermann, J); Wust, P (Wust, P); Stalling, D (Stalling, D); Seebass, M (Seebass, M); Nadobny, J (Nadobny, J); Beck, R (Beck, R); Hege, HC (Hege, HC); Deuflhard, P (Deuflhard, P); Felix, R (Felix, R)

Source: INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS **Volume:** 47 **Issue:** 4 **Pages:** 1145-1156 **DOI:** 10.1016/S0360-3016(00)00425-9 **Published:** JUL 1 2000

ISSN: 0360-3016

Record 344 of 495

Title: Effect of substrate vibrations on the sticking of atoms at surfaces: A critical comparison of different propagation methods for the H/Cu(100) system

Author(s): Klamroth, T (Klamroth, T); Saalfrank, P (Saalfrank, P)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 112 **Issue:** 23 **Pages:** 10571-10581 **Article Number:** **DOI:** 10.1063/1.481691 **Published:** JUN 15 2000

ISSN: 0021-9606

Record 345 of 495

Title: An adaptive finite element method for large scale image processing

Author(s): Preusser, T (Preusser, T); Rumpf, M (Rumpf, M)

Source: JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION **Volume:** 11 **Issue:** 2 **Pages:** 183-195 **DOI:** 10.1006/jvci.1999.0444 **Published:** JUN 2000

Conference: 2nd International Conference on Scale Space Theory in Computer Vision CORFU, GREECE SEP 26-27, 1999

Conference Title: 2nd International Conference on Scale Space Theory in Computer Vision

Conference Date: SEP 26-27, 1999

Conference Location: CORFU, GREECE

ISSN: 1047-3203

Record 346 of 495

Title: Least-squares mixed finite element solution of variably saturated subsurface flow problems

Author(s): Starke, G (Starke, G)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 21 **Issue:** 5 **Pages:** 1869-1885 **DOI:** 10.1137/S1064827598339384 **Published:** MAY 21 2000

Conference: 5th Copper Mountain Meeting on Iterative Methods COPPER MOUNTAIN, ALASKA APR, 1998

Conference Title: 5th Copper Mountain Meeting on Iterative Methods

Conference Date: APR, 1998

Conference Location: COPPER MOUNTAIN, ALASKA

ISSN: 1064-8275

Record 347 of 495

Title: Multiscale linear solvers for very large systems derived from PDEs

Author(s): Lackner, K (Lackner, K); Menikoff, R (Menikoff, R)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 21 **Issue:** 5 **Pages:** 1950-1968 **DOI:** 10.1137/S1064827598339785 **Published:** MAY 21 2000

Conference: 5th Copper Mountain Meeting on Iterative Methods COPPER MOUNTAIN, ALASKA APR, 1998

Conference Title: 5th Copper Mountain Meeting on Iterative Methods

Conference Date: APR, 1998

Conference Location: COPPER MOUNTAIN, ALASKA

ISSN: 1064-8275

Record 348 of 495**Title:** A wavelet-based method for numerical solution of nonlinear evolution equations**Author(s):** Comincioli, V (Comincioli, V); Naldi, G (Naldi, G); Scapolla, T (Scapolla, T)**Source:** APPLIED NUMERICAL MATHEMATICS **Volume:** 33 **Issue:** 1-4 **Pages:** 291-297 **DOI:** 10.1016/S0168-9274(99)00095-1 **Published:** MAY 2000**Conference:** 4th International Conference on Spectral and High Order Methods (ICOSAHOM 98) HERZLIYYA, ISRAEL JUN, 1998 Tel Aviv Univ, Rectors Off Tel Aviv Univ, Sch Math Sci Tel Aviv Univ, Sackler Fdn Computat Math**Conference Title:** 4th International Conference on Spectral and High Order Methods (ICOSAHOM 98)**Conference Date:** JUN, 1998**Conference Location:** HERZLIYYA, ISRAEL**Conference Sponsor(s):** Tel Aviv Univ, Rectors Off, Tel Aviv Univ, Sch Math Sci, Tel Aviv Univ, Sackler Fdn Computat Math**ISSN:** 0168-9274**Record 349 of 495****Title:** Smoothed Langevin dynamics of highly oscillatory systems**Author(s):** Reich, S (Reich, S)**Source:** PHYSICA D **Volume:** 138 **Issue:** 3-4 **Pages:** 210-224 **DOI:** 10.1016/S0167-2789(99)00200-6 **Published:** APR 15 2000**ISSN:** 0167-2789**Record 350 of 495****Title:** The convergence of the cascadic conjugate-gradient method applied to elliptic problems in domains with re-entrant corners**Author(s):** Shaidurov, V (Shaidurov, V); Tobiska, L (Tobiska, L)**Source:** MATHEMATICS OF COMPUTATION **Volume:** 69 **Issue:** 230 **Pages:** 501-520 **Published:** APR 2000**ISSN:** 0025-5718**Web of Knowledge****Page 7 (Articles 301 -- 350)** [1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10] [Back to Results](#)[Print This Page](#)

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Title: Non-smooth data error estimates for linearly implicit Runge-Kutta methods

Author(s): Ostermann, A (Ostermann, A); Thalhammer, M (Thalhammer, M)

Source: IMA JOURNAL OF NUMERICAL ANALYSIS **Volume:** 20 **Issue:** 2 **Pages:** 167-184 **DOI:** 10.1093/imanum/20.2.167 **Published:** APR 2000

ISSN: 0272-4979

Record 352 of 495

Title: Proposals for the propagation of quantum time-dependent self-consistent field equations

Author(s): Jiang, H (Jiang, H); Zhao, XS (Zhao, XS)

Source: CHEMICAL PHYSICS LETTERS **Volume:** 319 **Issue:** 5-6 **Pages:** 555-562 **DOI:** 10.1016/S0009-2614(00)00152-4 **Published:** MAR 24 2000

ISSN: 0009-2614

Record 353 of 495

Title: Adiabatic nuclear and electronic sampling Monte Carlo simulations in the Gibbs ensemble: Application to polarizable force fields for water

Author(s): Chen, B (Chen, B); Potoff, JJ (Potoff, JJ); Siepmann, JI (Siepmann, JI)

Source: JOURNAL OF PHYSICAL CHEMISTRY B **Volume:** 104 **Issue:** 10 **Pages:** 2378-2390 **DOI:** 10.1021/jp992459p **Published:** MAR 16 2000

ISSN: 1089-5647

Record 354 of 495

Title: Topological properties of the hydrogen-bond network in liquid water

Author(s): Bergman, DL (Bergman, DL)

Source: CHEMICAL PHYSICS **Volume:** 253 **Issue:** 2-3 **Pages:** 267-282 **DOI:** 10.1016/S0301-0104(99)00391-2 **Published:** MAR 1 2000

ISSN: 0301-0104

Record 355 of 495

Title: Use of dynamically adaptive grid techniques for the solution of electrochemical kinetic equations - Part 5. A finite-difference, adaptive space/time grid strategy based on a patch-type local uniform spatial grid refinement, for kinetic models in one-dimensional space geometry

Author(s): Bieniasz, LK (Bieniasz, LK)

Source: JOURNAL OF ELECTROANALYTICAL CHEMISTRY **Volume:** 481 **Issue:** 2 **Pages:** 115-133 **DOI:** 10.1016/S0022-0728(99)00460-X **Published:** FEB 7 2000

ISSN: 1572-6657

Record 356 of 495

Title: MBO(N)D: A multibody method for long-time molecular dynamics simulations

Author(s): Chun, HM (Chun, HM); Padilla, CE (Padilla, CE); Chin, DN (Chin, DN); Watanabe, M (Watanabe, M); Karlov, VI (Karlov, VI); Alper, HE (Alper, HE); Soosaar, K (Soosaar, K); Blair, KB (Blair, KB); Becker, OM (Becker, OM); Caves, LSD (Caves, LSD); Nagle, R (Nagle, R); Haney, DN (Haney, DN); Farmer, BL (Farmer, BL)

Source: JOURNAL OF COMPUTATIONAL CHEMISTRY **Volume:** 21 **Issue:** 3 **Pages:** 159-184 **DOI:** 10.1002/(SICI)1096-987X(200002)21:3<159::AID-JCC1>3.0.CO;2-J **Published:** FEB 2000

ISSN: 0192-8651

Record 357 of 495

Title: An a posteriori finite element error analysis for the Stokes equations

Author(s): Jou, J (Jou, J); Liu, JL (Liu, JL)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 114 **Issue:** 2 **Pages:** 333-343 **DOI:** 10.1016/S0377-0427(99)00271-X **Published:** FEB 1 2000

ISSN: 0377-0427

Record 358 of 495

Title: A hierarchical iterative procedure for the analysis of composite laminates

Author(s): Mitchell, JA (Mitchell, JA); Reddy, JN (Reddy, JN)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 181 **Issue:** 1-3 **Pages:** 237-260 **DOI:** 10.1016/S0045-7825(99)00070-5 **Published:** JAN 7 2000

ISSN: 0045-7825

Record 359 of 495

Title: An adaptive finite element method for a linear elliptic equation with variable coefficients

Author(s): Dorfler, W (Dorfler, W); Wilderotter, O (Wilderotter, O)

Source: ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK **Volume:** 80 **Issue:** 7 **Pages:** 481-491 **DOI:** 10.1002/1521-4001(200007)80:7<481::AID-ZAMM481>3.0.CO;2-5 **Published:** 2000

ISSN: 0044-2267

Record 360 of 495

Title: << Living >> chain radical polymerisation

Author(s): Korolev, GV (Korolev, GV); Marchenko, AP (Marchenko, AP)

Source: USPEKHI KHIMII **Volume:** 69 **Issue:** 5 **Pages:** 447-475 **Published:** 2000

ISSN: 0042-1308

Record 361 of 495

Title: A cascadic multigrid algorithm for semilinear indefinite elliptic problems

Author(s): Shaidurov, VV (Shaidurov, VV); Timmermann, G (Timmermann, G)

Source: COMPUTING **Volume:** 64 **Issue:** 4 **Pages:** 349-366 **DOI:** 10.1007/s006070070030 **Published:** 2000

Conference: International GAMM Workshop on Multigrid Methods UNIV BONN, BONN, GERMANY OCT, 1998 UNIV BONN GAMM

Conference Title: International GAMM Workshop on Multigrid Methods

Conference Date: OCT, 1998

Conference Location: BONN, GERMANY

Conference Sponsor(s): GAMM

Conference Host: UNIV BONN

ISSN: 0010-485X

Record 362 of 495

Title: Cascadic multigrid methods for parabolic pressure problems

Author(s): Shi, ZC (Shi, ZC); Xu, XJ (Xu, XJ)

Editor(s): Chen Z; Ewing RE; Shi ZC

Source: NUMERICAL TREATMENT OF MULTIPHASE FLOWS IN POROUS MEDIA **Book Series:** LECTURE NOTES IN PHYSICS **Volume:** 552 **Pages:** 292-298 **Published:** 2000

Conference: International Workshop on Fluid Flow and Transport in Porous Media BEIJING, PEOPLES R CHINA AUG 02-06, 1999 Natl Nat Sci Fdn China Beijing Inst Appl Phys & Computat Math Chinese State Key Basic Res Project USA Off Res Far E USN Off Res Int Field Off Asia USAF Asian Off Aerosp Res & Dev

Conference Title: International Workshop on Fluid Flow and Transport in Porous Media

Conference Date: AUG 02-06, 1999

Conference Location: BEIJING, PEOPLES R CHINA

Conference Sponsor(s): Natl Nat Sci Fdn China, Beijing Inst Appl Phys & Computat Math, Chinese State Key Basic Res Project, USA Off Res Far E, USN Off Res Int Field Off Asia, USAF Asian Off Aerosp Res & Dev

ISSN: 0075-8450

ISBN: 3-540-67566-3

Record 363 of 495

Title: SOLVING 3D SUBSURFACE FLOW AND TRANSPORT WITH ADAPTIVE MULTIGRID

Author(s): Li, MH (Li, Ming-Hsu); Cheng, HP (Cheng, Hwai-Ping); Yeh, GT (Yeh, Gour-Tsyh)

Source: JOURNAL OF HYDROLOGIC ENGINEERING **Volume:** 5 **Issue:** 1 **Pages:** 74-81 **DOI:** 10.1061/(ASCE)1084-0699(2000)5:1(74) **Published:** JAN 2000

ISSN: 1084-0699

Record 364 of 495

Title: Residual based a posteriori error estimators for eddy current computation

Author(s): Beck, R (Beck, R); Hiptmair, R (Hiptmair, R); Hoppe, RHW (Hoppe, RHW); Wohlmuth, B (Wohlmuth, B)

Source: ESAIM-MATHEMATICAL MODELLING AND NUMERICAL ANALYSIS-MODELISATION MATHEMATIQUE ET ANALYSE NUMERIQUE **Volume:** 34 **Issue:** 1 **Pages:** 159-182 **DOI:** 10.1051/m2an:2000136 **Published:** JAN-FEB 2000

ISSN: 0764-583X

Record 365 of 495

Title: Discretized obstacle problems with penalties on nested grids

Author(s): Imoro, B (Imoro, B)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 32 **Issue:** 1 **Pages:** 21-34 **DOI:** 10.1016/S0168-9274(99)00014-8 **Published:** JAN 2000

ISSN: 0168-9274

Record 366 of 495

Title: Molecular dynamics with nonadiabatic transitions: A comparison of methods

Author(s): Mavri, J (Mavri, J)

Source: MOLECULAR SIMULATION **Volume:** 23 **Issue:** 6 **Pages:** 389-411 **DOI:** 10.1080/08927020008023010 **Published:** 2000

ISSN: 0892-7022

Record 367 of 495

Title: Parallel adaptive subspace correction schemes with applications to elasticity

Author(s): Griebel, M (Griebel, M); Zumbusch, J (Zumbusch, J)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 184 **Issue:** 2-4 **Pages:** 303-332 **DOI:** 10.1016/S0045-7825(99)00233-9 **Published:** 2000

ISSN: 0045-7825

Record 368 of 495

Title: Finite-element simulation of soft tissue deformation

Author(s): Zachow, S (Zachow, S); Gladiline, E (Gladiline, E); Hege, HC (Hege, HC); Deuffhard, P (Deuffhard, P)

Editor(s): Lemke HU; Vannier MW; Inamura K; Farman AG; Doi K

Source: CARS 2000: COMPUTER ASSISTED RADIOLOGY AND SURGERY **Book Series:** INTERNATIONAL CONGRESS SERIES **Volume:** 1214 **Pages:** 23-28 **Published:** 2000

Conference: 14th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 2000)

SAN FRANCISCO, CA JUN 28-JUL 01, 2000

Conference Title: 14th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 2000)

Conference Date: JUN 28-JUL 01, 2000

Conference Location: SAN FRANCISCO, CA

ISSN: 0531-5131

ISBN: 0-444-50536-9

Record 369 of 495

Title: Detailed modeling of soil vapor extraction systems

Author(s): Hoeg, S (Hoeg, S); Neuss, N (Neuss, N); Warnatz, J (Warnatz, J); Jager, W (Jager, W); Scholer, HF (Scholer, HF)

Editor(s): Bentley LR; Sykes JF; Brebbia CA; Gray WG; Pinder GF

Source: COMPUTATIONAL METHODS IN WATER RESOURCES, VOLS 1 AND 2: COMPUTATIONAL METHODS FOR SUBSURFACE FLOW AND TRANSPORT - COMPUTATIONAL METHODS, SURFACE WATER SYSTEMS AND HYDROLOGY **Pages:** 137-143 **Published:** 2000

Conference: XIIIth International Conference on Computational Methods in Water Resources UNIV CALGARY, FAC SCI, CALGARY, CANADA JUN 25-29, 2000 UNIV CALGARY, FAC SCI

Conference Title: XIIIth International Conference on Computational Methods in Water Resources

Conference Date: JUN 25-29, 2000

Conference Location: CALGARY, CANADA

Conference Host: UNIV CALGARY, FAC SCI

ISBN: 90-5809-123-6

Record 370 of 495

Title: Wavelets on manifolds - I: Construction and domain decomposition

Author(s): Dahmen, W (Dahmen, W); Schneider, R (Schneider, R)

Source: SIAM JOURNAL ON MATHEMATICAL ANALYSIS **Volume:** 31 **Issue:** 1 **Pages:** 184-230 **DOI:** 10.1137/S0036141098333451 **Published:** DEC 10 1999

ISSN: 0036-1410

Record 371 of 495

Title: The midpoint scheme and variants for Hamiltonian systems: Advantages and pitfalls

Author(s): Ascher, UM (Ascher, UM); Reich, S (Reich, S)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 21 **Issue:** 3 **Pages:** 1045-1065 **DOI:** 10.1137/S1064827597316059 **Published:** DEC 6 1999

ISSN: 1064-8275

Record 372 of 495

Title: Exponential integrators for quantum-classical molecular dynamics

Author(s): Hochbruck, M (Hochbruck, M); Lubich, C (Lubich, C)

Source: BIT **Volume:** 39 **Issue:** 4 **Pages:** 620-645 **DOI:** 10.1023/A:1022335122807 **Published:** DEC 1999

ISSN: 0006-3835

Record 373 of 495

Title: Parallel refinement and coarsening of tetrahedral meshes

Author(s): de Cougny, HL (de Cougny, HL); Shephard, MS (Shephard, MS)

Source: INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING **Volume:** 46 **Issue:** 7 **Pages:** 1101-1125 **DOI:** 10.1002/(SICI)1097-0207(199911)46:7<1101::AID-NME741>3.3.CO;2-5 **Published:** NOV 10 1999

Record 374 of 495

Title: Analysis and experiments for a computational model of a heat bath

Author(s): Stuart, AM (Stuart, AM); Warren, JO (Warren, JO)

Source: JOURNAL OF STATISTICAL PHYSICS **Volume:** 97 **Issue:** 3-4 **Pages:** 687-723 **DOI:** 10.1023/A:1004667325896 **Published:** NOV 1999

ISSN: 0022-4715

Record 375 of 495

Title: A residual based error estimator for mortar finite element discretizations

Author(s): Wohlmuth, BI (Wohlmuth, BI)

Source: NUMERISCHE MATHEMATIK **Volume:** 84 **Issue:** 1 **Pages:** 143-171 **DOI:** 10.1007/s002110050467 **Published:** NOV 1999

ISSN: 0029-599X

Record 376 of 495

Title: A wrinkled membrane model for cloth draping with multigrid acceleration

Author(s): Chen, MX (Chen, MX); Sun, QP (Sun, QP); Wu, Z (Wu, Z); Yuen, MMF (Yuen, MMF)

Source: JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME **Volume:** 121 **Issue:** 4 **Pages:** 695-700 **DOI:** 10.1115/1.2833109 **Published:** NOV 1999

ISSN: 1087-1357

Record 377 of 495

Title: Quantum-classical molecular dynamics simulation of femtosecond spectroscopy on I-2 in inert gases: Mechanisms for the decay of pump-probe signals

Author(s): Ermoshin, VA (Ermoshin, VA); Kazansky, AK (Kazansky, AK); Engel, V (Engel, V)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 111 **Issue:** 17 **Pages:** 7807-7817 **DOI:** 10.1063/1.480116 **Published:** NOV 1 1999

ISSN: 0021-9606

Record 378 of 495

Title: On the time-dependent Hartree-Fock equations coupled with a classical nuclear dynamics

Author(s): Cancès, E (Cancès, E); Le Bris, C (Le Bris, C)

Source: MATHEMATICAL MODELS & METHODS IN APPLIED SCIENCES **Volume:** 9 **Issue:** 7 **Pages:** 963-990 **DOI:** 10.1142/S0218202599000440 **Published:** OCT 1999

ISSN: 0218-2025

Record 379 of 495

Title: A comparison of a posteriori error estimators for mixed finite element discretizations by Raviart-Thomas elements

Author(s): Wohlmuth, BI (Wohlmuth, BI); Hoppe, RHW (Hoppe, RHW)

Source: MATHEMATICS OF COMPUTATION **Volume:** 68 **Issue:** 228 **Pages:** 1347-1378 **DOI:** 10.1090/S0025-5718-99-01125-4 **Published:** OCT 1999

ISSN: 0025-5718

Record 380 of 495

Title: Hierarchical A posteriori error estimators for mortar finite element methods with Lagrange multipliers

Author(s): Wohlmuth, BI (Wohlmuth, BI)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 36 **Issue:** 5 **Pages:** 1636-1658 **DOI:** 10.1137/S0036142997330512 **Published:** SEP 8 1999

Record 381 of 495

Title: Nonlocal dielectric function of water: how strong are the effects of intramolecular charge form factors?

Author(s): Kornyshev, AA (Kornyshev, AA); Sutmann, G (Sutmann, G)

Source: JOURNAL OF MOLECULAR LIQUIDS **Volume:** 82 **Issue:** 1-2 **Pages:** 151-160 **DOI:** 10.1016/S0167-7322(99)00049-5 **Published:** SEP 1999

Conference: Seminar on the Structure of Liquids and Liquid Solutions of the Russian-Academy-of-Sciences MOSCOW, RUSSIA 1998

Conference Title: Seminar on the Structure of Liquids and Liquid Solutions of the Russian-Academy-of-Sciences

Conference Date: 1998

Conference Location: MOSCOW, RUSSIA

ISSN: 0167-7322

Record 382 of 495

Title: Impact of nonlinear heat transfer on temperature control in regional hyperthermia

Author(s): Lang, J (Lang, J); Erdmann, B (Erdmann, B); Seebass, M (Seebass, M)

Source: IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING **Volume:** 46 **Issue:** 9 **Pages:** 1129-1138 **DOI:** 10.1109/10.784145 **Published:** SEP 1999

ISSN: 0018-9294

Record 383 of 495

Title: A nonconforming weak residual error estimator for elliptic partial differential equations

Author(s): Jou, J (Jou, J); Liu, JL (Liu, JL)

Source: TAIWANESE JOURNAL OF MATHEMATICS **Volume:** 3 **Issue:** 3 **Pages:** 339-356 **Published:** SEP 1999

ISSN: 1027-5487

Record 384 of 495

Title: Adaptive accuracy control for Car-Parrinello simulations

Author(s): Bornemann, FA (Bornemann, FA); Schutte, C (Schutte, C)

Source: NUMERISCHE MATHEMATIK **Volume:** 83 **Issue:** 2 **Pages:** 179-186 **DOI:** 10.1007/s002110050445 **Published:** AUG 1999

ISSN: 0029-599X

Record 385 of 495

Title: Parallel multigrid in an adaptive PDE solver based on hashing and space-filling curves

Author(s): Griebel, M (Griebel, M); Zumbusch, G (Zumbusch, G)

Source: PARALLEL COMPUTING **Volume:** 25 **Issue:** 7 **Pages:** 827-843 **DOI:** 10.1016/S0167-8191(99)00020-4 **Published:** JUL 1999

ISSN: 0167-8191

Record 386 of 495

Title: An adaptive two-level method for the coupling of nonlinear FEM-BEM equations

Author(s): Mund, P (Mund, P); Stephan, EP (Stephan, EP)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 36 **Issue:** 4 **Pages:** 1001-1021 **DOI:** 10.1137/S0036142997316499 **Published:** JUN 29 1999

ISSN: 0036-1429

Record 387 of 495

Title: On the singular limit of the quantum-classical molecular dynamics model

Author(s): Bornemann, FA (Bornemann, FA); Schutte, C (Schutte, C)

Source: SIAM JOURNAL ON APPLIED MATHEMATICS **Volume:** 59 **Issue:** 4 **Pages:** 1208-1224 **Published:** MAY 13 1999

ISSN: 0036-1399

Record 388 of 495

Title: Hierarchical basis multilevel preconditioners for 3D magnetostatic problems

Author(s): Tsukerman, I (Tsukerman, I); Plaks, A (Plaks, A)

Source: IEEE TRANSACTIONS ON MAGNETICS **Volume:** 35 **Issue:** 3 **Pages:** 1143-1146 **DOI:** 10.1109/20.767150 **Part:** Part 1 **Published:** MAY 1999

Conference: 8th Biennial IEEE Conference on Electromagnetic Field Computation (IEEE CEFC 98) TUCSON, ARIZONA JUN 01-03, 1998 IEEE

Conference Title: 8th Biennial IEEE Conference on Electromagnetic Field Computation (IEEE CEFC 98)

Conference Date: JUN 01-03, 1998

Conference Location: TUCSON, ARIZONA

Conference Sponsor(s): IEEE

ISSN: 0018-9464

Record 389 of 495

Title: Multiple time scales in classical and quantum-classical molecular dynamics

Author(s): Reich, S (Reich, S)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 151 **Issue:** 1 **Pages:** 49-73 **DOI:** 10.1006/jcph.1998.6142 **Published:** MAY 1 1999

ISSN: 0021-9991

Record 390 of 495

Title: A cascadic multigrid algorithm for the Stokes equations

Author(s): Braess, D (Braess, D); Dahmen, W (Dahmen, W)

Source: NUMERISCHE MATHEMATIK **Volume:** 82 **Issue:** 2 **Pages:** 179-191 **DOI:** 10.1007/s002110050416 **Published:** APR 1999

ISSN: 0029-599X

Record 391 of 495

Title: Multilevel methods for mixed finite elements in three dimensions

Author(s): Hiptmair, R (Hiptmair, R); Hoppe, RHW (Hoppe, RHW)

Source: NUMERISCHE MATHEMATIK **Volume:** 82 **Issue:** 2 **Pages:** 253-279 **DOI:** 10.1007/s002110050419 **Published:** APR 1999

ISSN: 0029-599X

Record 392 of 495

Title: Photolysis of hydrogen chloride embedded in the first argon solvation shell: Rotational control and quantum dynamics of photofragments

Author(s): Zdanska, P (Zdanska, P); Schmidt, B (Schmidt, B); Jungwirth, P (Jungwirth, P)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 110 **Issue:** 13 **Pages:** 6246-6256 **Published:** APR 1 1999

ISSN: 0021-9606

Record 393 of 495

Title: A novel mixed quantum/classical method for the dynamics of molecules in a gas environment with an application to femtosecond time-resolved spectroscopy

Author(s): Ermoshin, VA (Ermoshin, VA); Kazansky, AK (Kazansky, AK); Engel, V (Engel, V)

Source: CHEMICAL PHYSICS LETTERS **Volume:** 302 **Issue:** 1-2 **Pages:** 20-26 **DOI:** 10.1016/S0009-2614(99)00086-X **Published:** MAR 12 1999
ISSN: 0009-2614

Record 394 of 495

Title: Computing smooth solutions of DAEs for elastic multibody systems

Author(s): Rheinboldt, WC (Rheinboldt, WC); Simeon, B (Simeon, B)

Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS **Volume:** 37 **Issue:** 6 **Pages:** 69-83 **DOI:** 10.1016/S0898-1221(99)00077-2 **Published:** MAR 1999

ISSN: 0898-1221

Record 395 of 495

Title: Theoretical chemistry 1998

Author(s): Marx, D (Marx, D)

Source: NACHRICHTEN AUS CHEMIE TECHNIK UND LABORATORIUM **Volume:** 47 **Issue:** 2 **Pages:** 186-195 **DOI:** 10.1002/nadc.19990470212 **Published:** FEB 1999

ISSN: 0341-5163

Record 396 of 495

Title: Recent numerical methods - A challenge for efficient visualization

Author(s): Rumpf, M (Rumpf, M)

Source: FUTURE GENERATION COMPUTER SYSTEMS **Volume:** 15 **Issue:** 1 **Pages:** 43-58 **DOI:** 10.1016/S0167-739X(98)00049-1 **Published:** FEB 1999

ISSN: 0167-739X

Record 397 of 495

Title: Computing a molecule in its environment: A mathematical viewpoint

Author(s): Defranceschi, M (Defranceschi, M); Le Bris, C (Le Bris, C)

Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY **Volume:** 71 **Issue:** 3 **Pages:** 227-250 **DOI:** 10.1002/(SICI)1097-461X(1999)71:3<227::AID-QUA2>3.3.CO;2-# **Published:** JAN 20 1999

ISSN: 0020-7608

Record 398 of 495

Title: Adaptive projection operators in multiresolution scientific visualization

Author(s): Ohlberger, M (Ohlberger, M); Rumpf, M (Rumpf, M)

Source: IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS **Volume:** 5 **Issue:** 1 **Pages:** 74-94 **DOI:** 10.1109/2945.764874 **Published:** JAN-MAR 1999

ISSN: 1077-2626

Record 399 of 495

Title: Preservation of adiabatic invariants under symplectic discretization

Author(s): Reich, S (Reich, S)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 29 **Issue:** 1 **Pages:** 45-55 **DOI:** 10.1016/S0168-9274(98)00032-4 **Published:** JAN 1999

Conference: NSF/CBMS Regional Conference on Numerical Analysis of Hamiltonian Differential Equations
COLORADO SCH MINES, GOLDEN, COLORADO JUN 02-06, 1997 COLORADO SCH MINES NSF CBMS

Conference Title: NSF/CBMS Regional Conference on Numerical Analysis of Hamiltonian Differential Equations

Conference Date: JUN 02-06, 1997

Conference Location: GOLDEN, COLORADO

Conference Sponsor(s): NSF, CBMS

Conference Host: COLORADO SCH MINES

ISSN: 0168-9274

Record 400 of 495

Title: A posteriori finite element error analysis for symmetric positive differential equations

Author(s): Jou, J (Jou, J); Liu, JL (Liu, JL)

Source: NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION **Volume:** 20 **Issue:** 5-6 **Pages:** 473-490 **DOI:** 10.1080/01630569908816906 **Published:** 1999

ISSN: 0163-0563

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Title: An adaptive finite element method for large scale image processing

Author(s): Preusser, T (Preusser, T); Rumpf, M (Rumpf, M)

Editor(s): Nielsen M; Johansen P; Olsen OF; Weickert J

Source: SCALE-SPACE THEORIES IN COMPUTER VISION **Book Series:** LECTURE NOTES IN COMPUTER SCIENCE **Volume:** 1682 **Pages:** 223-234 **Published:** 1999

Conference: 2nd International Conference on Scale Space Theory in Computer Vision (Scale-Space 99) CORFU, GREECE SEP 26-27, 1999 Danish Natl Res Council Nat Sci

Conference Title: 2nd International Conference on Scale Space Theory in Computer Vision (Scale-Space 99)

Conference Date: SEP 26-27, 1999

Conference Location: CORFU, GREECE

Conference Sponsor(s): Danish Natl Res Council Nat Sci

ISSN: 0302-9743

ISBN: 3-540-66498-X

Record 402 of 495

Title: A cascade algorithm for solving a discrete analogue of weakly nonlinear elliptic equation

Author(s): Gilyova, LV (Gilyova, LV); Shaidurov, VV (Shaidurov, VV)

Source: RUSSIAN JOURNAL OF NUMERICAL ANALYSIS AND MATHEMATICAL MODELLING **Volume:** 14 **Issue:** 1 **Pages:** 59-69 **DOI:** 10.1515/rnam.1999.14.1.59 **Published:** 1999

ISSN: 0927-6467

Record 403 of 495

Title: Multigrid method for Maxwell's equations

Author(s): Hiptmair, R (Hiptmair, R)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 36 **Issue:** 1 **Pages:** 204-225 **DOI:** 10.1137/S0036142997326203 **Published:** DEC 2 1998

ISSN: 0036-1429

Record 404 of 495

Title: Adaptive finite elements for exterior domain problems

Author(s): Bansch, E (Bansch, E); Dorfler, W (Dorfler, W)

Source: NUMERISCHE MATHEMATIK **Volume:** 80 **Issue:** 4 **Pages:** 497-523 **DOI:** 10.1007/s002110050376 **Published:** OCT 1998

ISSN: 0029-599X

Record 405 of 495

Title: An iterative multi level algorithm for solving nonlinear ill-posed problems

Author(s): Scherzer, O (Scherzer, O)

Source: NUMERISCHE MATHEMATIK **Volume:** 80 **Issue:** 4 **Pages:** 579-600 **DOI:** 10.1007/s002110050379 **Published:** OCT 1998

ISSN: 0029-599X

Record 406 of 495

Title: Three electronic state model of the primary phototransformation of bacteriorhodopsin

Author(s): Humphrey, W (Humphrey, W); Lu, H (Lu, H); Logunov, I (Logunov, I); Werner, HJ (Werner, HJ); Schulten,

K (Schulten, K)

Source: BIOPHYSICAL JOURNAL **Volume:** 75 **Issue:** 4 **Pages:** 1689-1699 **Published:** OCT 1998

ISSN: 0006-3495

Record 407 of 495

Title: A multiresolution method for numerical reduction and homogenization of nonlinear ODEs

Author(s): Beylkin, G (Beylkin, G); Brewster, ME (Brewster, ME); Gilbert, AC (Gilbert, AC)

Source: APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS **Volume:** 5 **Issue:** 4 **Pages:** 450-486 **DOI:** 10.1006/acha.1998.0250 **Published:** OCT 1998

ISSN: 1063-5203

Record 408 of 495

Title: Adaptive projection operators in multiresolution scientific visualization

Author(s): Ohlberger, M (Ohlberger, M); Rumpf, M (Rumpf, M)

Source: IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS **Volume:** 4 **Issue:** 4 **Pages:** 344-364 **DOI:** 10.1109/2945.765328 **Published:** OCT-DEC 1998

ISSN: 1077-2626

Record 409 of 495

Title: A convergence analysis of iterative methods for the solution of nonlinear ill-posed problems under affinity invariant conditions

Author(s): Deuffhard, P (Deuffhard, P); Engl, HW (Engl, HW); Scherzer, O (Scherzer, O)

Source: INVERSE PROBLEMS **Volume:** 14 **Issue:** 5 **Pages:** 1081-1106 **DOI:** 10.1088/0266-5611/14/5/002 **Published:** OCT 1998

ISSN: 0266-5611

Record 410 of 495

Title: Structure preservation for constrained dynamics with super partitioned additive Runge-Kutta methods

Author(s): Jay, LO (Jay, LO)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 20 **Issue:** 2 **Pages:** 416-446 **DOI:** 10.1137/S1064827595293223 **Published:** SEP 10 1998

ISSN: 1064-8275

Record 411 of 495

Title: Stabilizing the hierarchical basis by approximate wavelets II: Implementation and numerical results

Author(s): Vassilevski, PS (Vassilevski, PS); Wang, JP (Wang, JP)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 20 **Issue:** 2 **Pages:** 490-514 **DOI:** 10.1137/S1064827596300668 **Published:** SEP 10 1998

ISSN: 1064-8275

Record 412 of 495

Title: Stable three-point wavelet bases on general meshes

Author(s): Stevenson, R (Stevenson, R)

Source: NUMERISCHE MATHEMATIK **Volume:** 80 **Issue:** 1 **Pages:** 131-158 **DOI:** 10.1007/s002110050363 **Published:** JUL 1998

ISSN: 0029-599X

Record 413 of 495

Title: Two-dimensional cascadic finite element computations of combustion problems

Author(s): Frohlich, J (Frohlich, J); Lang, J (Lang, J)

Source: COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING **Volume:** 158 **Issue:** 3-4 **Pages:** 255-267 **DOI:** 10.1016/S0045-7825(97)00255-7 **Published:** JUN 8 1998
ISSN: 0045-7825

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Title: Multigrid methods for computation of magnetostatic fields in magnetic recording problems

Author(s): Tsukerman, I (Tsukerman, I); Plaks, A (Plaks, A); Bertram, HN (Bertram, HN)

Source: JOURNAL OF APPLIED PHYSICS **Volume:** 83 **Issue:** 11 **Pages:** 6344-6346 **DOI:** 10.1063/1.367730 **Part:** Part 2 **Published:** JUN 1 1998

Conference: 7th Joint Magnetism and Magnetic Materials / International Magnetism Conference SAN FRANCISCO, CALIFORNIA JAN 06-09, 1998 Amer Inst Phys IEEE Magnet Soc TMS Off Naval Res Amer Soc Testing & Mat Amer Ceram Soc

Conference Title: 7th Joint Magnetism and Magnetic Materials / International Magnetism Conference

Conference Date: JAN 06-09, 1998

Conference Location: SAN FRANCISCO, CALIFORNIA

Conference Sponsor(s): Amer Inst Phys, IEEE Magnet Soc, TMS, Off Naval Res, Amer Soc Testing & Mat, Amer Ceram Soc

ISSN: 0021-8979

Record 415 of 495

Title: Domain decomposition operator splittings for the solution of parabolic equations

Author(s): Mathew, TP (Mathew, TP); Polyakov, PL (Polyakov, PL); Russo, G (Russo, G); Wang, J (Wang, J)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 19 **Issue:** 3 **Pages:** 912-932 **DOI:** 10.1137/S1064827595288206 **Published:** MAY 1998

ISSN: 1064-8275

Record 416 of 495

Title: On the cascading organization of iterative algorithms

Author(s): Shaidurov, VV (Shaidurov, VV)

Source: DOKLADY AKADEMII NAUK **Volume:** 359 **Issue:** 5 **Pages:** 600-603 **Published:** APR 1998

ISSN: 0869-5652

Record 417 of 495

Title: Where does computer chemistry move - Focused on larger molecules modelling

Author(s): Koca, J (Koca, J)

Source: CHEMICKE LISTY **Volume:** 92 **Issue:** 2 **Pages:** 101-113 **Published:** 1998

ISSN: 0009-2770

Record 418 of 495

Title: An explicit norm representation for the analysis of multilevel methods

Author(s): Niessen, G (Niessen, G)

Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 9 **Issue:** 3-4 **Pages:** 311-335 **DOI:** 10.1023/A:1018949809444 **Published:** 1998

ISSN: 1019-7168

Record 419 of 495

Title: Fast computations with the harmonic Poincare-Steklov operators on nested refined meshes

Author(s): Khoromskij, BN (Khoromskij, BN); Prossdorf, S (Prossdorf, S)

Source: ADVANCES IN COMPUTATIONAL MATHEMATICS **Volume:** 8 **Issue:** 1-2 **Pages:** 111-135 **DOI:** 10.1023/A:1018988028583 **Published:** 1998

Record 420 of 495

Title: Robust a posteriori error estimators for a singularly perturbed reaction-diffusion equation

Author(s): Verfurth, R (Verfurth, R)

Source: NUMERISCHE MATHEMATIK **Volume:** 78 **Issue:** 3 **Pages:** 479-493 **DOI:**

10.1007/s002110050322 **Published:** JAN 1998

ISSN: 0029-599X

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Title: Multilevel norms for $H^{-1/2}$

Author(s): Oswald, P (Oswald, P)

Source: COMPUTING **Volume:** 61 **Issue:** 3 **Pages:** 235-255 **DOI:** 10.1007/BF02684352 **Published:** 1998

ISSN: 0010-485X

Record 422 of 495

Title: Two-level methods for the single layer potential in R^3

Author(s): Mund, P (Mund, P); Stephan, EP (Stephan, EP); Weisse, J (Weisse, J)

Source: COMPUTING **Volume:** 60 **Issue:** 3 **Pages:** 243-266 **DOI:** 10.1007/BF02684335 **Published:** 1998

ISSN: 0010-485X

Record 423 of 495

Title: Adaptive FEM for reaction-diffusion equations

Author(s): Lang, J (Lang, J)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 26 **Issue:** 1-2 **Pages:** 105-116 **DOI:** 10.1016/S0168-9274(97)00088-3 **Published:** JAN 1998

Conference: International-Centre-for-Mathematical-Sciences Meeting on Grid Adaptation in Computational PDEs EDINBURGH, SCOTLAND JUL 01-05, 1996 Int Ctr Math Sci

Conference Title: International-Centre-for-Mathematical-Sciences Meeting on Grid Adaptation in Computational PDEs

Conference Date: JUL 01-05, 1996

Conference Location: EDINBURGH, SCOTLAND

Conference Sponsor(s): Int Ctr Math Sci

ISSN: 0168-9274

Record 424 of 495

Title: A simple analysis of some a posteriori error estimates

Author(s): Bank, RE (Bank, RE)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 26 **Issue:** 1-2 **Pages:** 153-164 **DOI:** 10.1016/S0168-9274(97)00081-0 **Published:** JAN 1998

Conference: International-Centre-for-Mathematical-Sciences Meeting on Grid Adaptation in Computational PDEs EDINBURGH, SCOTLAND JUL 01-05, 1996 Int Ctr Math Sci

Conference Title: International-Centre-for-Mathematical-Sciences Meeting on Grid Adaptation in Computational PDEs

Conference Date: JUL 01-05, 1996

Conference Location: EDINBURGH, SCOTLAND

Conference Sponsor(s): Int Ctr Math Sci

ISSN: 0168-9274

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Title: DAEs and PDEs in elastic multibody systems

Author(s): Simeon, B (Simeon, B)

Source: NUMERICAL ALGORITHMS **Volume:** 19 **Issue:** 1-4 **Pages:** 235-246 **DOI:** 10.1023/A:1019118809892 **Published:** 1998
ISSN: 1017-1398

Record 426 of 495

Title: Mixed quantum-classical dynamics

Author(s): Tully, JC (Tully, JC)

Source: FARADAY DISCUSSIONS **Volume:** 110 **Pages:** 407-419 **DOI:** 10.1039/a801824c **Published:** 1998
ISSN: 0301-7249

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Title: Near-resonant vibrational energy transfer from nitrous oxide to benzene

Author(s): Shin, HK (Shin, HK)

Source: CHEMICAL PHYSICS LETTERS **Volume:** 281 **Issue:** 1-3 **Pages:** 175-185 **DOI:** 10.1016/S0009-2614(97)01138-X **Published:** DEC 19 1997
ISSN: 0009-2614

Record 428 of 495

Title: A robust hierarchical basis preconditioner on general meshes

Author(s): Stevenson, R (Stevenson, R)

Source: NUMERISCHE MATHEMATIK **Volume:** 78 **Issue:** 2 **Pages:** 269-303 **DOI:** 10.1007/s002110050313 **Published:** DEC 1997
ISSN: 0029-599X

Record 429 of 495

Title: Homogenization approach to smoothed molecular dynamics

Author(s): Schutte, C (Schutte, C); Bornemann, FA (Bornemann, FA)

Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS **Volume:** 30 **Issue:** 3 **Pages:** 1805-1814 **DOI:** 10.1016/S0362-546X(97)00216-2 **Published:** DEC 1997

Conference: 2nd World Congress of Nonlinear Analysis ATHENS, GREECE JUL 10-17, 1996 Int Federat Nonlinear Analysts

Conference Title: 2nd World Congress of Nonlinear Analysis

Conference Date: JUL 10-17, 1996

Conference Location: ATHENS, GREECE

Conference Sponsor(s): Int Federat Nonlinear Analysts

ISSN: 0362-546X

Record 430 of 495

Title: Quantum molecular dynamics of large systems beyond separable approximation: The configuration interaction classical separable potential method

Author(s): Jungwirth, P (Jungwirth, P); Fredj, E (Fredj, E); Gerber, RB (Gerber, RB)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 107 **Issue:** 21 **Pages:** 8963-8974 **DOI:** 10.1063/1.475188 **Published:** DEC 1 1997
ISSN: 0021-9606

Record 431 of 495

Title: Field-of-values analysis of preconditioned iterative methods for nonsymmetric elliptic problems

Author(s): Starke, G (Starke, G)

Source: NUMERISCHE MATHEMATIK **Volume:** 78 **Issue:** 1 **Pages:** 103-117 **DOI:** 10.1007/s002110050306 **Published:** NOV 1997

Record 432 of 495

Title: Adaptive multilevel techniques for mixed finite element discretizations of elliptic boundary value problems

Author(s): Hoppe, RHW (Hoppe, RHW); Wohlmuth, B (Wohlmuth, B)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 34 **Issue:** 4 **Pages:** 1658-1681 **DOI:** 10.1137/S0036142994276992 **Published:** AUG 1997

ISSN: 0036-1429

Record 433 of 495

Title: Dynamic domain decomposition and grid modification for parabolic problems

Author(s): Yang, D (Yang, D)

Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS **Volume:** 33 **Issue:** 10 **Pages:** 89-103 **DOI:** 10.1016/S0898-1221(97)00079-5 **Published:** MAY 1997

ISSN: 0898-1221

Record 434 of 495

Title: Dynamics and relaxation in interacting systems: Semigroup methods

Author(s): Kosloff, R (Kosloff, R); Ratner, MA (Ratner, MA); Davis, WB (Davis, WB)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 106 **Issue:** 17 **Pages:** 7036-7043 **DOI:** 10.1063/1.473726 **Published:** MAY 1 1997

ISSN: 0021-9606

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Title: Stabilizing the hierarchical basis by approximate wavelets .1. Theory

Author(s): Vassilevski, PS (Vassilevski, PS); Wang, JP (Wang, JP)

Source: NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS **Volume:** 4 **Issue:** 2 **Pages:** 103-126 **DOI:** 10.1002/(SICI)1099-1506(199703/04)4:2<103::AID-NLA101>3.0.CO;2-J **Published:** MAR-APR 1997

ISSN: 1070-5325

Record 436 of 495

Title: On two ways of stabilizing the hierarchical basis multilevel methods

Author(s): Vassilevski, PS (Vassilevski, PS)

Source: SIAM REVIEW **Volume:** 39 **Issue:** 1 **Pages:** 18-53 **DOI:** 10.1137/S0036144595282211 **Published:** MAR 1997

ISSN: 0036-1445

Record 437 of 495

Title: Absolute propagation rate coefficients in radical polymerization from gel permeation chromatography of polymers produced by intermittent initiation

Author(s): Hungenberg, KD (Hungenberg, KD); Knoll, K (Knoll, K); Wulkow, M (Wulkow, M)

Source: MACROMOLECULAR THEORY AND SIMULATIONS **Volume:** 6 **Issue:** 2 **Pages:** 393-426 **DOI:** 10.1002/mats.1997.040060207 **Published:** MAR 1997

ISSN: 1022-1344

Record 438 of 495

Title: Experiments in 3D with a three-point hierarchical basis preconditioner

Author(s): Stevenson, R (Stevenson, R)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 23 **Issue:** 1 **Pages:** 159-175 **DOI:** 10.1016/S0168-9274(96)00066-9 **Published:** FEB 1997

Conference: Multilevel Methods and Applications Meeting OBERWOLFACH, GERMANY APR 30-MAY 06, 1995

Conference Title: Multilevel Methods and Applications Meeting

Conference Date: APR 30-MAY 06, 1995

Conference Location: OBERWOLFACH, GERMANY

ISSN: 0168-9274

Record 439 of 495

Title: Stable multiscale bases and local error estimation for elliptic problems

Author(s): Dahlke, S (Dahlke, S); Dahmen, W (Dahmen, W); Hochmuth, R (Hochmuth, R); Schneider, R (Schneider, R)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 23 **Issue:** 1 **Pages:** 21-47 **DOI:** 10.1016/S0168-9274(96)00060-8 **Published:** FEB 1997

Conference: Multilevel Methods and Applications Meeting OBERWOLFACH, GERMANY APR 30-MAY 06, 1995

Conference Title: Multilevel Methods and Applications Meeting

Conference Date: APR 30-MAY 06, 1995

Conference Location: OBERWOLFACH, GERMANY

ISSN: 0168-9274

Record 440 of 495

Title: Additive multilevel preconditioners based on bilinear interpolation, matrix-dependent geometric coarsening and algebraic multigrid coarsening for second-order elliptic PDEs

Author(s): Grauschopf, T (Grauschopf, T); Griebel, M (Griebel, M); Regler, H (Regler, H)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 23 **Issue:** 1 **Pages:** 63-95 **DOI:** 10.1016/S0168-9274(96)00062-1 **Published:** FEB 1997

Conference: Multilevel Methods and Applications Meeting OBERWOLFACH, GERMANY APR 30-MAY 06, 1995

Conference Title: Multilevel Methods and Applications Meeting

Conference Date: APR 30-MAY 06, 1995

Conference Location: OBERWOLFACH, GERMANY

ISSN: 0168-9274

Record 441 of 495

Title: Multilevel iterative solution and adaptive mesh refinement for mixed finite element discretizations

Author(s): Hoppe, RHW (Hoppe, RHW); Wohlmuth, B (Wohlmuth, B)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 23 **Issue:** 1 **Pages:** 97-117 **DOI:** 10.1016/S0168-9274(96)00063-3 **Published:** FEB 1997

Conference: Multilevel Methods and Applications Meeting OBERWOLFACH, GERMANY APR 30-MAY 06, 1995

Conference Title: Multilevel Methods and Applications Meeting

Conference Date: APR 30-MAY 06, 1995

Conference Location: OBERWOLFACH, GERMANY

ISSN: 0168-9274

Record 442 of 495

Title: An algorithm for adaptive mesh refinement in n dimensions

Author(s): Traxler, CT (Traxler, CT)

Source: COMPUTING **Volume:** 59 **Issue:** 2 **Pages:** 115-137 **DOI:** 10.1007/BF02684475 **Published:** 1997

ISSN: 0010-485X

Record 443 of 495

Title: Hierarchical and adaptive visualization on nested grids

Author(s): Ohlberger, M (Ohlberger, M); Rumpf, M (Rumpf, M)

Source: COMPUTING **Volume:** 59 **Issue:** 4 **Pages:** 365-385 **DOI:** 10.1007/BF02684418 **Published:** 1997
ISSN: 0010-485X

Record 444 of 495

Title: Thermal degradation of poly-L-lactide - Studies on kinetics, modelling and melt stabilisation

Author(s): Wachsen, O (Wachsen, O); Platkowski, K (Platkowski, K); Reichert, KH (Reichert, KH)

Source: POLYMER DEGRADATION AND STABILITY **Volume:** 57 **Issue:** 1 **Pages:** 87-94 **DOI:** 10.1016/S0141-3910(96)00226-1 **Published:** 1997

ISSN: 0141-3910

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Title: Biomolecular dynamics at long timesteps: Bridging the timescale gap between simulation and experimentation

Author(s): Schlick, T (Schlick, T); Barth, E (Barth, E); Mandziuk, M (Mandziuk, M)

Source: ANNUAL REVIEW OF BIOPHYSICS AND BIOMOLECULAR STRUCTURE **Volume:** 26 **Pages:** 181-222 **DOI:** 10.1146/annurev.biophys.26.1.181 **Published:** 1997

ISSN: 1056-8700

Record 446 of 495

Title: Quantum dynamics of large polyatomic systems using classical separable potentials - The computational implementation

Author(s): Jungwirth, P (Jungwirth, P); Fredj, E (Fredj, E); Zdanska, P (Zdanska, P); Gerber, RB (Gerber, RB)

Source: COMPUTERS & CHEMISTRY **Volume:** 21 **Issue:** 6 **Pages:** 419-429 **DOI:** 10.1016/S0097-8485(97)00016-8 **Published:** 1997

ISSN: 0097-8485

Record 447 of 495

Title: Load balancing strategies for distributed memory machines

Author(s): Diekman, R (Diekman, R); Preis, R (Preis, R)

Editor(s): Topping BHV

Source: PARALLEL AND DISTRIBUTED PROCESSING FOR COMPUTATIONAL MECHANICS: SYSTEMS AND TOOLS **Pages:** 124-157 **Published:** 1997

Conference: 1st Euro-Conference on Parallel and Distributed Computing for Computational Mechanics LOCHINVER, SCOTLAND APR 26-MAY 01, 1997 European Commiss Training & Mobil Researchers Program Civil Comp Ltd

Conference Title: 1st Euro-Conference on Parallel and Distributed Computing for Computational Mechanics

Conference Date: APR 26-MAY 01, 1997

Conference Location: LOCHINVER, SCOTLAND

Conference Sponsor(s): European Commiss Training & Mobil Researchers Program, Civil Comp Ltd

ISBN: 1-874672-03-2

Record 448 of 495

Title: Posteriori error estimators for the Raviart-Thomas element

Author(s): Braess, D (Braess, D); Verfurth, R (Verfurth, R)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 33 **Issue:** 6 **Pages:** 2431-2444 **DOI:** 10.1137/S0036142994264079 **Published:** DEC 1996

ISSN: 0036-1429

Record 449 of 495

Title: The importance of exchange reactions in controlled/living radical polymerization in the presence of alkoxyamines and transition metals

Author(s): Matyjaszewski, K (Matyjaszewski, K)

Source: MACROMOLECULAR SYMPOSIA **Volume:** 111 **Pages:** 47-61 **DOI:** 10.1002/masy.19961110107 **Published:** DEC 1996

Conference: 2nd International Symposium on Free Radical Polymerization - Kinetics and Mechanisms SANTA MARGHERITA LIGURE, GENOA, ITALY MAY 26-31, 1996 SANTA MARGHERITA LIGURE

Conference Title: 2nd International Symposium on Free Radical Polymerization - Kinetics and Mechanisms

Conference Date: MAY 26-31, 1996

Conference Location: GENOA, ITALY

Conference Host: SANTA MARGHERITA LIGURE

ISSN: 1022-1360

Record 450 of 495

Title: Mechanism of controlled/"living" radical polymerization of styrene in the presence of nitroxyl radicals. Kinetics and simulations

Author(s): Greszta, D (Greszta, D); Matyjaszewski, K (Matyjaszewski, K)

Source: MACROMOLECULES **Volume:** 29 **Issue:** 24 **Pages:** 7661-7670 **DOI:** 10.1021/ma9608840 **Published:** NOV 18 1996

ISSN: 0024-9297

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Title: An improved derefinement algorithm of nested meshes

Author(s): Plaza, A (Plaza, A); Montenegro, R (Montenegro, R); Ferragut, L (Ferragut, L)

Source: ADVANCES IN ENGINEERING SOFTWARE **Volume:** 27 **Issue:** 1-2 **Pages:** 51-57 **DOI:** 10.1016/0965-9978(96)00005-1 **Published:** OCT-NOV 1996

Conference: 2nd International Conference on Computational Structures Technology ATHENS, GREECE AUG 30-SEP 01, 1994 Greek Assoc Comp Mech Greek Minist Culture Gen Secretariat Res & Technol Greece Tourist Org Greece Nato TU Athens Univ Patras Democritus Univ Thrace Evgenidis Fdn UNISYS Hellas

Conference Title: 2nd International Conference on Computational Structures Technology

Conference Date: AUG 30-SEP 01, 1994

Conference Location: ATHENS, GREECE

Conference Sponsor(s): Greek Assoc Comp Mech, Greek Minist Culture, Gen Secretariat Res & Technol Greece, Tourist Org Greece, Nato TU Athens, Univ Patras, Democritus Univ Thrace, Evgenidis Fdn, UNISYS Hellas

ISSN: 0965-9978

Record 452 of 495

Title: Multilevel minimal residual methods for nonsymmetric elliptic problems

Author(s): Starke, G (Starke, G)

Source: NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS **Volume:** 3 **Issue:** 5 **Pages:** 351-367 **DOI:** 10.1002/(SICI)1099-1506(199609/10)3:5<351::AID-NLA88>3.0.CO;2-# **Published:** SEP-OCT 1996

ISSN: 1070-5325

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Title: Quantum-classical molecular dynamics as an approximation to full quantum dynamics

Author(s): Bornemann, FA (Bornemann, FA); Nettesheim, P (Nettesheim, P); Schutte, C (Schutte, C)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 105 **Issue:** 3 **Pages:** 1074-1083 **DOI:** 10.1063/1.471952 **Published:** JUL 15 1996

ISSN: 0021-9606

Record 454 of 495

Title: On multi-level bases for elliptic boundary value problems

Author(s): Lai, MJ (Lai, MJ); Wenston, P (Wenston, P)

Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS **Volume:** 71 **Issue:** 1 **Pages:** 95-113 **DOI:** 10.1016/0377-0427(95)00214-6 **Published:** JUL 10 1996

ISSN: 0377-0427

Record 455 of 495

Title: Preconditioners for nonconforming discretizations

Author(s): Oswald, P (Oswald, P)

Source: MATHEMATICS OF COMPUTATION **Volume:** 65 **Issue:** 215 **Pages:** 923-941 **DOI:** 10.1090/S0025-5718-96-00717-X **Published:** JUL 1996

ISSN: 0025-5718

Record 456 of 495

Title: Simulation studies promote technological development of radiofrequency phased array hyperthermia

Author(s): Wust, P (Wust, P); Seebass, M (Seebass, M); Nadobny, J (Nadobny, J); Deuflhard, P (Deuflhard, P); Monich,

G (Monich, G); Felix, R (Felix, R)

Source: INTERNATIONAL JOURNAL OF HYPERTHERMIA **Volume:** 12 **Issue:** 4 **Pages:** 477-494 **DOI:** 10.3109/02656739609023525 **Published:** JUL-AUG 1996

ISSN: 0265-6736

Record 457 of 495

Title: Robust iterative methods for elliptic problems with highly varying coefficients in thin substructures

Author(s): Khoromskij, BN (Khoromskij, BN); Wittum, G (Wittum, G)

Source: NUMERISCHE MATHEMATIK **Volume:** 73 **Issue:** 4 **Pages:** 449-472 **DOI:**

10.1007/s002110050200 **Published:** JUN 1996

ISSN: 0029-599X

Record 458 of 495

Title: A posteriori error estimates for elliptic problems in two and three space dimensions

Author(s): Bornemann, FA (Bornemann, FA); Erdmann, B (Erdmann, B); Kornhuber, R (Kornhuber, R)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 33 **Issue:** 3 **Pages:** 1188-1204 **DOI:**

10.1137/0733059 **Published:** JUN 1996

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Title: The simulation of molecular weight distributions in polyreaction kinetics by discrete Galerkin methods

Author(s): Wulkow, M (Wulkow, M)

Source: MACROMOLECULAR THEORY AND SIMULATIONS **Volume:** 5 **Issue:** 3 **Pages:** 393-416 **DOI:**

10.1002/mats.1996.040050303 **Published:** MAY 1996

ISSN: 1022-1344

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Title: A fully adaptive algorithm for parabolic partial differential equations in one space dimension

Author(s): Nowak, U (Nowak, U); Frauhammer, J (Frauhammer, J); Nieken, U (Nieken, U)

Source: COMPUTERS & CHEMICAL ENGINEERING **Volume:** 20 **Issue:** 5 **Pages:** 547-561 **DOI:** 10.1016/0098-1354(95)00207-3 **Published:** MAY 1996

ISSN: 0098-1354

Record 461 of 495

Title: Convergence estimates of multilevel additive and multiplicative algorithms for non-symmetric and indefinite problems

Author(s): Cai, ZQ (Cai, ZQ); Lai, CYG (Lai, CYG)

Source: NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS **Volume:** 3 **Issue:** 3 **Pages:** 205-220 **DOI:**

10.1002/(SICI)1099-1506(199605/06)3:3<205::AID-NLA79>3.0.CO;2-K **Published:** MAY-JUN 1996

ISSN: 1070-5325

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Title: High-resolution self-adaptive computations on chemical reaction-diffusion problems with internal boundaries

Author(s): Lang, J (Lang, J)

Source: CHEMICAL ENGINEERING SCIENCE **Volume:** 51 **Issue:** 7 **Pages:** 1055-1070 **DOI:** 10.1016/0009-2509(95)00330-4 **Published:** APR 1996

ISSN: 0009-2509

Record 463 of 495

Title: A posteriori error estimates for elliptic variational inequalities

Author(s): Kornhuber, R (Kornhuber, R)

Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS **Volume:** 31 **Issue:** 8 **Pages:** 49-60 **DOI:** 10.1016/0898-1221(96)00030-2 **Published:** APR 1996

ISSN: 0898-1221

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Title: An algorithm for coarsening unstructured meshes

Author(s): Bank, RE (Bank, RE); Xu, JC (Xu, JC)

Source: NUMERISCHE MATHEMATIK **Volume:** 73 **Issue:** 1 **Pages:** 1-36 **DOI:** 10.1007/s002110050181 **Published:** MAR 1996

ISSN: 0029-599X

Record 465 of 495

Title: Element-oriented and edge-oriented local error estimators for nonconforming finite element methods

Author(s): Hoppe, RHW (Hoppe, RHW); Wohlmuth, B (Wohlmuth, B)

Source: RAIRO-MATHEMATICAL MODELLING AND NUMERICAL ANALYSIS-MODELISATION MATHEMATIQUE ET ANALYSE NUMERIQUE **Volume:** 30 **Issue:** 2 **Pages:** 237-263 **Published:** MAR 1996

ISSN: 0764-583X

Record 466 of 495

Title: A variational approach to optimal meshes

Author(s): Rumpf, M (Rumpf, M)

Source: NUMERISCHE MATHEMATIK **Volume:** 72 **Issue:** 4 **Pages:** 523-540 **DOI:** 10.1007/s002110050180 **Published:** FEB 1996

ISSN: 0029-599X

Record 467 of 495

Title: Behavior of small finite element structures for the Navier-Stokes equations

Author(s): Goubet, O (Goubet, O)

Source: MATHEMATICAL MODELS & METHODS IN APPLIED SCIENCES **Volume:** 6 **Issue:** 1 **Pages:** 1-32 **DOI:** 10.1142/S021820259600002X **Published:** FEB 1996

ISSN: 0218-2025

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Title: Multilevel Schwarz methods for elliptic problems with discontinuous coefficients in three dimensions

Author(s): Dryja, M (Dryja, M); Sarkis, MV (Sarkis, MV); Widlund, OB (Widlund, OB)

Source: NUMERISCHE MATHEMATIK **Volume:** 72 **Issue:** 3 **Pages:** 313-348 **DOI:** 10.1007/s002110050172 **Published:** JAN 1996

ISSN: 0029-599X

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Title: Multilevel preconditioned augmented Lagrangian techniques for 2nd order mixed problems

Author(s): Hiptmair, R (Hiptmair, R); Schiekofer, T (Schiekofer, T); Wohlmuth, B (Wohlmuth, B)

Source: COMPUTING **Volume:** 57 **Issue:** 1 **Pages:** 25-48 **DOI:** 10.1007/BF02238356 **Published:** 1996

ISSN: 0010-485X

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Title: Isotropic refinement and recoarsening in two dimensions

Author(s): Hempel, D (Hempel, D)

Source: NUMERICAL ALGORITHMS **Volume:** 13 **Issue:** 1-2 **Pages:** 33-43 **DOI:** 10.1007/BF02143125 **Published:**

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Title: Multilevel preconditioners for discretizations of the biharmonic equation by rectangular finite elements

Author(s): Oswald, P (Oswald, P)

Source: NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS **Volume:** 2 **Issue:** 6 **Pages:** 487-505 **DOI:** 10.1002/nla.1680020603 **Published:** NOV-DEC 1995

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Title: KINETIC-ANALYSIS OF LIVING POLYMERIZATION PROCESSES EXHIBITING SLOW EQUILIBRIA .2. MOLECULAR-WEIGHT DISTRIBUTION FOR DEGENERATIVE TRANSFER (DIRECT ACTIVITY EXCHANGE BETWEEN ACTIVE AND DORMANT SPECIES) AT CONSTANT MONOMER CONCENTRATION

Author(s): MULLER, AHE (MULLER, AHE); YAN, DY (YAN, DY); LITVINENKO, G (LITVINENKO, G); ZHUANG, RG (ZHUANG, RG); DONG, H (DONG, H)

Source: MACROMOLECULES **Volume:** 28 **Issue:** 22 **Pages:** 7335-7338 **Published:** OCT 23 1995

ISSN: 0024-9297

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Title: FINITE-ELEMENT-METHOD EXPECTATION VALUES FOR CORRELATED 2-ELECTRON WAVE-FUNCTIONS

Author(s): ACKERMANN, J (ACKERMANN, J)

Source: PHYSICAL REVIEW A **Volume:** 52 **Issue:** 3 **Pages:** 1968-1975 **DOI:** 10.1103/PhysRevA.52.1968 **Published:** SEP 1995

ISSN: 1050-2947

Record 474 of 495

Title: 2-DIMENSIONAL FULLY ADAPTIVE SOLUTIONS OF REACTION-DIFFUSION EQUATIONS

Author(s): LANG, J (LANG, J)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 18 **Issue:** 1-3 **Pages:** 223-240 **DOI:** 10.1016/0168-9274(95)00057-2 **Published:** SEP 1995

Conference: 7th Conference on the Numerical Treatment of Differential Equations (NUMDIFF-7) MARTIN LUTHER UNIV, HALLE, GERMANY SEP 19-23, 1994 MARTIN LUTHER UNIV Int Assoc Math & Comp Simulat Martin Luther Univ Halle Wittenberg German Res Soc Mercedes Benz IBM Germany

Conference Title: 7th Conference on the Numerical Treatment of Differential Equations (NUMDIFF-7)

Conference Date: SEP 19-23, 1994

Conference Location: HALLE, GERMANY

Conference Sponsor(s): Int Assoc Math & Comp Simulat, Martin Luther Univ Halle Wittenberg, German Res Soc, Mercedes Benz, IBM Germany

Conference Host: MARTIN LUTHER UNIV

ISSN: 0168-9274

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Title: DISCRETE TRANSPARENT BOUNDARY-CONDITIONS FOR THE NUMERICAL-SOLUTION OF FRESNELS EQUATION

Author(s): SCHMIDT, F (SCHMIDT, F); DEUFLHARD, P (DEUFLHARD, P)

Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS **Volume:** 29 **Issue:** 9 **Pages:** 53-76 **DOI:** 10.1016/0898-1221(95)00037-Y **Published:** MAY 1995

ISSN: 0898-1221

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Title: CLINICAL, PHYSIOLOGICAL AND ANATOMICAL DETERMINANTS FOR RADIOFREQUENCY HYPERTHERMIA

Author(s): WUST, P (WUST, P); STAHL, H (STAHL, H); LOFFEL, J (LOFFEL, J); SEEBASS, M (SEEBASS, M); RIESS, H (RIESS, H); FELIX, R (FELIX, R)

Source: INTERNATIONAL JOURNAL OF HYPERTHERMIA **Volume:** 11 **Issue:** 2 **Pages:** 151-167 **DOI:** 10.3109/02656739509022453 **Published:** MAR-APR 1995

ISSN: 0265-6736

Record 477 of 495

Title: Data structures and concepts for adaptive finite element methods

Author(s): Leinen, P (Leinen, P)

Source: COMPUTING **Volume:** 55 **Issue:** 4 **Pages:** 325-354 **DOI:** 10.1007/BF02238486 **Published:** 1995

ISSN: 0010-485X

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Title: Tetrahedral grid refinement

Author(s): Bey, J (Bey, J)

Source: COMPUTING **Volume:** 55 **Issue:** 4 **Pages:** 355-378 **DOI:** 10.1007/BF02238487 **Published:** 1995

ISSN: 0010-485X

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Title: LINEARLY IMPLICIT TIME DISCRETIZATION OF NONLINEAR PARABOLIC EQUATIONS

Author(s): LUBICH, C (LUBICH, C); OSTERMANN, A (OSTERMANN, A)

Source: IMA JOURNAL OF NUMERICAL ANALYSIS **Volume:** 15 **Issue:** 4 **Pages:** 555-583 **DOI:** 10.1093/imanum/15.4.555 **Published:** 1995

ISSN: 0272-4979

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Title: Efficient use of parallel & distributed systems: From theory to practice

Author(s): Monien, B (Monien, B); Diekmann, R (Diekmann, R); Feldmann, R (Feldmann, R); Klasing, R (Klasing, R); Luling, R (Luling, R); Menzel, K (Menzel, K); Romke, T (Romke, T); Schroeder, UP (Schroeder, UP)

Source: COMPUTER SCIENCE TODAY **Book Series:** LECTURE NOTES IN COMPUTER SCIENCE **Volume:** 1000 **Pages:** 62-77 **Published:** 1995

ISSN: 0302-9743

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Title: MONOTONE MULTIGRID METHODS FOR ELLIPTIC VARIATIONAL INEQUALITIES-I

Author(s): KORNHUBER, R (KORNHUBER, R)

Source: NUMERISCHE MATHEMATIK **Volume:** 69 **Issue:** 2 **Pages:** 167-184 **Published:** DEC 1994

ISSN: 0029-599X

Record 482 of 495

Title: A SELF-ADAPTIVE MULTILEVEL FINITE-ELEMENT METHOD FOR THE STATIONARY SCHRODINGER-EQUATION IN 3-SPACE DIMENSIONS

Author(s): ACKERMANN, J (ACKERMANN, J); ERDMANN, B (ERDMANN, B); ROITZSCH, R (ROITZSCH, R)

Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 101 **Issue:** 9 **Pages:** 7643-7650 **DOI:** 10.1063/1.468257 **Published:** NOV 1 1994

ISSN: 0021-9606

Record 483 of 495

Title: MULTILEVEL ALGORITHMS CONSIDERED AS ITERATIVE METHODS ON SEMIDEFINITE SYSTEMS

Author(s): GRIEBEL, M (GRIEBEL, M)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 15 **Issue:** 3 **Pages:** 547-565 **DOI:** 10.1137/0915036 **Published:** MAY 1994

Conference: 1992 Copper Mountain Conference on Iterative Methods in Numerical Linear Algebra COPPER MT RESORT, COPPER MT, CO APR 09-14, 1992 COPPER MT RESORT US DOE

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Conference Date: APR 09-14, 1992

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Conference Sponsor(s): US DOE

Conference Host: COPPER MT RESORT

ISSN: 1064-8275

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Title: ADAPTIVE MULTILEVEL METHODS FOR OBSTACLE PROBLEMS

Author(s): HOPPE, RHW (HOPPE, RHW); KORNHUBER, R (KORNHUBER, R)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 31 **Issue:** 2 **Pages:** 301-323 **DOI:** 10.1137/0731016 **Published:** APR 1994

ISSN: 0036-1429

Record 485 of 495

Title: A POSTERIORI ERROR ESTIMATION WITH FINITE-ELEMENT SEMI-DISCRETE AND FULLY DISCRETE METHODS FOR NONLINEAR PARABOLIC EQUATIONS IN ONE SPACE DIMENSION

Author(s): MOORE, PK (MOORE, PK)

Source: SIAM JOURNAL ON NUMERICAL ANALYSIS **Volume:** 31 **Issue:** 1 **Pages:** 149-169 **DOI:** 10.1137/0731008 **Published:** FEB 1994

ISSN: 0036-1429

Record 486 of 495

Title: SOME REMARKS ON A MULTIGRID PRECONDITIONER

Author(s): XU, JC (XU, JC); QIN, JS (QIN, JS)

Source: SIAM JOURNAL ON SCIENTIFIC COMPUTING **Volume:** 15 **Issue:** 1 **Pages:** 172-184 **DOI:** 10.1137/0915012 **Published:** JAN 1994

ISSN: 1064-8275

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Title: FINITE-ELEMENT MULTILEVEL APPROXIMATION OF A FUNCTION AND APPLICATIONS

Author(s): GOUBET, O (GOUBET, O)

Source: NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION **Volume:** 15 **Issue:** 3-4 **Pages:** 279-299 **DOI:** 10.1080/01630569408816566 **Published:** 1994

ISSN: 0163-0563

Record 488 of 495

Title: ADAPTIVE MULTILEVEL METHODS IN 3 SPACE DIMENSIONS

Author(s): BORNEMANN, F (BORNEMANN, F); ERDMANN, B (ERDMANN, B); KORNHUBER, R (KORNHUBER, R)

Source: INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING **Volume:** 36 **Issue:** 18 **Pages:** 3187-3203 **DOI:** 10.1002/nme.1620361808 **Published:** SEP 30 1993

ISSN: 0029-5981

Record 489 of 495

Title: AN ADAPTIVE ROTHE METHOD FOR NONLINEAR REACTION-DIFFUSION SYSTEMS

Author(s): LANG, J (LANG, J); WALTER, A (WALTER, A)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 13 **Issue:** 1-3 **Pages:** 135-146 **DOI:** 10.1016/0168-9274(93)90137-G **Published:** SEP 1993

Conference: 6TH CONF ON THE NUMERICAL TREATMENT OF DIFFERENTIAL EQUATIONS (NUMDIFF-6)
MARTIN LUTHER UNIV, HALLE, GERMANY SEP 21-25, 1992 MARTIN LUTHER UNIV INT ASSOC MATH &
COMP SIMULAT

Conference Title: 6TH CONF ON THE NUMERICAL TREATMENT OF DIFFERENTIAL EQUATIONS (NUMDIFF-6)

Conference Date: SEP 21-25, 1992

Conference Location: HALLE, GERMANY

Conference Sponsor(s): INT ASSOC MATH & COMP SIMULAT

Conference Host: MARTIN LUTHER UNIV

ISSN: 0168-9274

Record 490 of 495

Title: ANALYSIS OF LOCAL UNIFORM GRID REFINEMENT

Author(s): VERWER, JG (VERWER, JG); TROMPERT, RA (TROMPERT, RA)

Source: APPLIED NUMERICAL MATHEMATICS **Volume:** 13 **Issue:** 1-3 **Pages:** 251-270 **DOI:** 10.1016/0168-9274(93)90147-J **Published:** SEP 1993

Conference: 6TH CONF ON THE NUMERICAL TREATMENT OF DIFFERENTIAL EQUATIONS (NUMDIFF-6)
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Conference Title: 6TH CONF ON THE NUMERICAL TREATMENT OF DIFFERENTIAL EQUATIONS (NUMDIFF-6)

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Conference Location: HALLE, GERMANY

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Conference Host: MARTIN LUTHER UNIV

ISSN: 0168-9274

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Title: AN ADAPTIVE APPROACH TO THE NUMERICAL-SOLUTION OF FRESNELS WAVE-EQUATION

Author(s): SCHMIDT, F (SCHMIDT, F)

Source: JOURNAL OF LIGHTWAVE TECHNOLOGY **Volume:** 11 **Issue:** 9 **Pages:** 1425-1434 **DOI:** 10.1109/50.241932 **Published:** SEP 1993

ISSN: 0733-8724

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Title: 3-D COMPUTATION OF E-FIELDS BY THE VOLUME-SURFACE INTEGRAL-EQUATION (VSIE) METHOD IN COMPARISON WITH THE FINITE-INTEGRATION THEORY (FIT) METHOD

Author(s): WUST, P (WUST, P); NADOBNY, J (NADOBNY, J); SEEBASS, M (SEEBASS, M); DOHLUS, JM (DOHLUS, JM); JOHN, W (JOHN, W); FELIX, R (FELIX, R)

Source: IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING **Volume:** 40 **Issue:** 8 **Pages:** 745-759 **DOI:** 10.1109/10.238459 **Published:** AUG 1993

ISSN: 0018-9294

Record 493 of 495

Title: MULTILEVEL PRECONDITIONING

Author(s): DAHMEN, W (DAHMEN, W); KUNOTH, A (KUNOTH, A)

Source: NUMERISCHE MATHEMATIK **Volume:** 63 **Issue:** 3 **Pages:** 315-344 **DOI:** 10.1007/BF01385864 **Published:** DEC 1992
ISSN: 0029-599X

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Title: ADAPTIVE MULTILEVEL BEAM PROPAGATION METHOD

Author(s): SCHMIDT, F (SCHMIDT, F); NOLTING, HP (NOLTING, HP)

Source: IEEE PHOTONICS TECHNOLOGY LETTERS **Volume:** 4 **Issue:** 12 **Pages:** 1381-1383 **DOI:** 10.1109/68.180583 **Published:** DEC 1992

ISSN: 1041-1135

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Title: ITERATIVE METHODS BY SPACE DECOMPOSITION AND SUBSPACE CORRECTION

Author(s): XU, JC (XU, JC)

Source: SIAM REVIEW **Volume:** 34 **Issue:** 4 **Pages:** 581-613 **DOI:** 10.1137/1034116 **Published:** DEC 1992

ISSN: 0036-1445

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