Selected Topics in Approximation and Computation

Marek A. Kowalski
Krszysztof A. Sikorski
Frank Stenger

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Mitra Dutta

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Selected Topics in Approximation and Computation Marek Kowalski,Christopher Sikorski,Frank Stenger,1995-08-31 Selected Topics in Approximation and Computation addresses the relationship between modern approximation theory and computational methods The text is a combination of expositions of basic classical methods of approximation leading to popular splines and new explicit tools of computation including Sinc methods elliptic function methods and positive operator approximation methods It also provides an excellent summary of worst case analysis in information based complexity It relates optimal computational methods with the theory of s numbers and n widths It can serve as a text for senior graduate courses in computer science and applied mathematics and also as a reference for professionals **Selected Topics in Approximation and Computation** Marek A. Kowalski,Krzystof A. Sikorski,Frank Stenger,1995-10-19 Selected Topics in Approximation and Computation is a combination of expositions of basic classical methods of approximation leading to popular splines and new explicit tools of computation including sinc methods elliptic function methods and positive operator approximation methods It also provides an excellent summary of worst case analysis in Information Based Complexity It relates optimal computational methods e with the theory of s numbers and m widths *Selected Topics On Superconductivity* L C Gupta,Manu S Multani,1993-04-30 Contents The First Five Years of High Tc Superconductivity K A M ller Different Factors which Govern the Optimisation of High Tc Superconductive Cuprates Involving Bi Tl or Pb B Raveau M Hervieu C Michel J Provost A Maignan C Simon D Groult Superconductivity in Cuprates and Other Oxides H R Ott Organic Superconductors with Tc Higher than 10K T Ishiguro Y Nogami Fundamentals of RVB Theory and Some Applications to High Temperature Superconductors G Baskaran Anyons and Superconductivity S Das Sarma Mott Transition in the Hubbard Model B S Shastry Superconducting Pairing in Layered Superconductors S S Jha Breaking the Log Jam in Many Body Physics Fermi Surfaces Without Fermi Liquids P W Anderson Superconductivity in High Magnetic Fields from a Microscopic Theory A K Rajagopal Nonequilibrium Superconductivity R Tidecks Neutron Scattering Study of the High Tc Superconducting System YBa2Cu3O6 x J Rossat Mignod et al Crystal Field Excitations in High Tc Superconducting Materials A Furrer Superconducting Granular Films S I Kobayashi Transport Properties in the Mixed State of High Temperature Superconductors A Freimuth Physics of Josephson Effect and Recent Advances A Barone S Pagano Tunneling Spectroscopy of Copper Oxide Superconductors T Ekino J Akimitsu Superconductivity and Magnetism in Heavy Fermion Compounds F Steglich U Ahlheim C D Bredl C Geibel M Lang A Loidl G Sparn Nuclear Magnetic Resonance Studies in Highly Correlated Systems Heavy Fermion and High Tc Superconductors K Asayama Pulsed Laser and Cylindrical Magnetron Sputter Deposition of Epitaxial Metal Oxide Thin Films T Venkatesan et al Readership Physicists chemists and engineers keywords

Nonlocal Modeling, Analysis, and Computation Qiang Du,2019-03-20 Studies of complexity singularity and anomaly using nonlocal continuum models are steadily gaining popularity This monograph provides an introduction to basic analytical computational and modeling issues and to some of the latest developments in these areas Nonlocal Modeling Analysis and Computation includes motivational examples of nonlocal models basic building blocks of nonlocal vector calculus elements of theory for well posedness and nonlocal spaces connections to and coupling with local models convergence and compatibility of numerical approximations and various applications such as nonlocal dynamics of anomalous diffusion and nonlocal peridynamic models of elasticity and fracture mechanics A particular focus is on nonlocal systems with a finite range of interaction to illustrate their connection to local partial differential equations and fractional PDEs These models are designed to represent nonlocal interactions explicitly and to remain valid for complex systems involving possible singular solutions and they have the potential to be alternatives for as well as bridges to existing models The author discusses ongoing studies of nonlocal models to encourage the discovery of new mathematical theory for nonlocal continuum models and offer new perspectives on traditional models analytical techniques and algorithms *Scientific and Engineering Computations for the 21st Century - Methodologies and Applications* M. Mori,T. Mitsui,2002-12-03 The 20th century saw tremendous achievements and progress in science and technology Undoubtedly computers and computer related technologies acted as one of vital catalysts for accelerating this progress in the latter half of the century The contributions of mathematical sciences have been equally profound and the synergy between mathematics and computer science has played a key role in accelerating the progress of both fields as well as science and engineering Mathematical sciences will undoubtedly continue to play this vital role in this new century In particular mathematical modeling and numerical simulation will continue to be among the essential methodologies for solving massive and complex problems that arise in science engineering and manufacturing Underpinning this all from a sound theoretical perspective will be numerical algorithms In recognition of this observation this volume focuses on the following specific topics 1 Fundamental numerical algorithms 2 Applications of numerical algorithms 3 Emerging technologies The articles included in this issue by experts on advanced scientific and engineering computations from numerous countries elucidate state of the art achievements in these three topics from various angles and suggest the future directions Although we cannot hope to cover all the aspects in scientific and engineering computations we hope that the articles will interest inform and inspire members of the science and engineering community

Computer Algebra in Scientific Computing Vladimir P. Gerdt,Wolfram Koepf,Werner M. Seiler,Evgenii V. Vorozhtsov,2014-09-01 This book constitutes the proceedings of the 16th International Workshop on Computer Algebra in Scientific Computing CASC 2014 held in Warsaw Poland in September 2014 The 33 full papers presented were carefully reviewed and selected for inclusion in this book The papers address issues such as Studies in polynomial algebra are represented by contributions devoted to factoring sparse bivariate polynomials using the priority queue the construction of irreducible polynomials by using the Newton index real polynomial root finding by means of matrix and polynomial iterations application of the eigenvalue method with symmetry for solving polynomial systems arising in the vibration analysis of mechanical structures with symmetry properties application of Gr bner systems for computing the absolute reduction number of polynomial ideals the application of cylindrical algebraic decomposition for solving the quantifier elimination problems certification of approximate roots of overdetermined and singular polynomial systems via the recovery of an exact rational univariate representation from approximate numerical data new parallel algorithms for operations on univariate polynomials multi point evaluation interpolation based on subproduct tree techniques **Multiscale Signal Analysis and Modeling** Xiaoping Shen,Ahmed I. Zayed,2012-09-18 Multiscale Signal Analysis and Modeling presents recent advances in multiscale analysis and modeling using wavelets and other systems This book also presents applications in digital signal processing using sampling theory and techniques from various function spaces filter design feature extraction and classification signal and image representation transmission coding nonparametric statistical signal processing and statistical learning theory *Selected Topics of Computational and Experimental Fluid Mechanics* Jaime Klapp,Gerardo Ruíz Chavarría,Abraham Medina Ovando,Abel López Villa,Leonardo Di G. Sigalotti,2015-03-05 This book contains invited lectures and selected contributions presented at the Enzo Levi and XIX Annual Meeting of the Fluid Dynamic Division of the Mexican Physical Society in 2013 It is aimed at fourth year undergraduate and graduate students and scientists in the fields of physics engineering and chemistry who are interested in fluid dynamics from an experimental and theoretical point of view The invited lectures are introductory and avoid the use of complicated mathematics The fluid dynamics applications include multiphase flow convection diffusion heat transfer rheology granular material viscous flow porous media flow geophysics and astrophysics The material contained in the book includes recent advances in experimental and theoretical fluid dynamics and is suitable for both teaching and research **Numerical Analysis** Walter Gautschi,2011-12-06 Revised and updated this second edition of Walter Gautschi s successful Numerical Analysis explores computational methods for problems arising in the areas of classical analysis approximation theory and ordinary differential equations among others Topics included in the book are presented with a view toward stressing basic principles and maintaining simplicity and teachability as far as possible while subjects requiring a higher level of technicality are referenced in detailed bibliographic notes at the end of each chapter Readers are thus given the guidance and opportunity to pursue advanced modern topics in more depth Along with updated references new biographical notes and enhanced notational clarity this second edition includes the expansion of an already large collection of exercises and assignments both the kind that deal with theoretical and practical aspects of the subject and those requiring machine computation and the use of mathematical software Perhaps most notably the edition also comes with a complete solutions manual carefully developed and polished by the author which will serve as an exceptionally valuable resource for instructors **Selected Topics on Continuous-time Controlled Markov Chains and Markov Games** Tomás Prieto-Rumeau,Onésimo Hernández-Lerma,2012 This book concerns continuous time controlled Markov chains also known as continuous time Markov decision processes They form a class of stochastic control problems in which a single decision maker wishes to optimize a given objective function This book is also concerned with Markov games where two decision makers or players try to optimize their own objective function Both decision making processes appear in a large number of applications in economics operations research engineering and computer science among other areas An extensive self contained up to date analysis of basic optimality criteria such as discounted and average reward and advanced optimality criteria e g bias overtaking sensitive discount and Blackwell optimality is presented A particular emphasis is made on the application of the results herein algorithmic and computational issues are discussed and applications to population models and epidemic processes are shown This book is addressed to students and researchers in the fields of stochastic control and stochastic games Moreover it could be of interest also to undergraduate and beginning graduate students because the reader is not supposed to have a high mathematical background a working knowledge of calculus linear algebra probability and continuous time Markov chains should suffice to understand the contents of the book **Computational Methods in Optimal Control** William H. Hager,2025-02-13 Using material from many different sources in a systematic and unified way this self contained book provides both rigorous mathematical theory and practical numerical insights while developing a framework for determining the convergence rate of discrete approximations to optimal control problems Elements of the framework include the reference point the truncation error and a stability theory for the linearized first order optimality conditions Within this framework the discretized control problem has a stationary point whose distance to the reference point is bounded in terms of the truncation error The theory applies to a broad range of discretizations and provides completely new insights into the convergence theory for discrete approximations in optimal control including the relationship between orthogonal collocation and Runge Kutta methods Throughout the book derivatives associated with the discretized control problem are expressed in terms of a back propagated costate In particular the objective derivative of a bang bang or singular control problem with respect to a switch point of the control are obtained which leads to the efficient solution of a class of nonsmooth control problems using a gradient based optimizer Computational Methods in Optimal Control Theory and Practice is intended for numerical analysts and computational scientists Users of the software package GPOPS may find the book useful since the theoretical basis for the GPOPS algorithm is developed within the book It is appropriate for courses in variational analysis numerical optimization and the calculus of variations **Numerical Methods for Roots of Polynomials - Part II** J.M. McNamee,V.Y. Pan,2013-07-19 We discuss the secant method where are initial guesses In the Regula Falsi variation we start with initial guesses and such that after an iteration similar to the above we replace either a or b by the new value depending on which of or has the same sign as Often one of the points gets stuck and several variants such as the Illinois or Pegasus methods and variations are used to unstick it We discuss convergence and efficiency of most of the methods considered We treat methods involving quadratic of higher order interpolation and rational approximation We also discuss the bisection method where again and we set We replace a or b by c according to the sign of as in the Regula Falsi method Various generalizations are described including some for complex roots Finally we consider hybrid methods involving two or more of the previously described methods **Computational Methods for Modeling of Nonlinear Systems by Anatoli Torokhti and Phil Howlett** Anatoli Torokhti,Phil Howlett,2007-04-11 In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems A number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non Lagrange interpolation methods of system representation subject to constraints associated with concepts of causality memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation and methods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory ant its particular branches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering **The Mathematical-Function Computation Handbook** Nelson H.F. Beebe,2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardw are and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

Quantum-based Electronic Devices And Systems, Selected Topics In Electronics And Systems, Vol 14 Mitra Dutta,1998-10-23 This volume includes highlights of the theories and experimental findings that underlie essential phenomena occurring in quantum based devices and systems as well as the principles of operation of selected novel quantum based electronic devices and systems A number of the emerging approaches to creating new types of quantum based electronic devices and systems are also discussed **Selected Topics in Nonlinear Dynamics and Theoretical Electrical Engineering** Kyandoghere Kyamakya,Wolfgang A. Halang,Wolfgang Mathis,Jean Chamberlain Chedjou,Zhong Li,2013-04-02 This book contains a collection of recent advanced contributions in the field of nonlinear dynamics and synchronization including selected applications in the area of theoretical electrical engineering The present book is divided into twenty one chapters grouped in five parts The first part focuses on theoretical issues related to chaos and synchronization and their potential applications in mechanics transportation communication and security The second part handles dynamic systems modelling and simulation with special applications to real physical systems and phenomena The third part discusses some fundamentals of electromagnetics EM and addresses the modelling and simulation in some real physical electromagnetic scenarios The fourth part mainly addresses stability concerns Finally the last part assembles some sample applications in the area of optimization data mining pattern recognition and image processing **Algorithms and Theory of Computation Handbook, Volume 2** Mikhail J. Atallah,Marina Blanton,2009-11-20 Algorithms and Theory of Computation Handbook Second Edition Special Topics and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many of **Multivariate Approximation Theory** E. W. Cheney,1986-01-01 The approximation of functions of several variables continues to be a difficult problem in scientific computing because many of the algorithms required for such problems have yet to be written This monograph is written for a broad audience of computational mathematicians and statisticians concerned with the development of algorithms or the derivation of approximations from linear projections of which the interpolating operators are an important example As an aid to both researchers and students a bibliography of more than 200 titles is included **Statistical Computing with R** Maria L. Rizzo,2007-11-15 Computational statistics and statistical computing are two areas that employ computational graphical and numerical approaches to solve statistical problems making the versatile R language an ideal computing environment for these fields One of the first books on these topics to feature R Statistical Computing with R covers the traditiona Quantum Spin Glasses, Annealing and Computation Shu Tanaka,Ryo Tamura,Bikas K. Chakrabarti,2017-05-04 Quantum annealing is a new generation tool of information technology which helps in solving combinatorial optimization problems with high precision based on the concepts of quantum statistical physics Detailed discussion on quantum spin glasses and its application in solving combinatorial optimization problems is required for better understanding of quantum annealing concepts Fulfilling this requirement the book highlights recent development in quantum spin glasses including Nishimori line replica method and quantum annealing methods along with the essential principles Separate chapters on simulated annealing quantum dynamics and classical spin models are provided for enhanced learning Important topics including adiabatic quantum computers and quenching dynamics are discussed in detail This text will be useful for students of quantum computation quantum information statistical physics and computer science

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