

Selected Topics in Approximation and Computation

Marek A. Kowalski

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L C Gupta,Manu S Multani



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Numerical Analysis Walter Gautschi, 2011-12-06
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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

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

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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 *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 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 hardware 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

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

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

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

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

Selected Topics in Mathematical Analysis Liviu C. Florescu, 2024-11-07 This book presents four topics related to undergraduate courses typically not covered in standard lectures Written in a clear and careful style these four pearls aim at complementing and deepening the knowledge of students and instructors by presenting a variety of techniques and useful methods The first chapter provides a detailed discussion of real numbers the foundation of any mathematical construction Chapter two of the book is dedicated to the study of sequences defined by recurrence relations The third chapter explores certain problems in asymptotic analysis and the final chapter of the book discusses mathematical results related to Integration in Finite Terms Each chapter of the book is accompanied by its respective bibliography The book is intended for readers with a level of maturity typically attained after completing a bachelor s degree in mathematics

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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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