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Mathematical Aspects of
Scientific Software

Mathematical Aspects Of Scientific Software

Francisco Botana,Tomas Recio

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Mathematical Aspects of Scientific Software J.R. Rice,2012-12-06 Since scientific software is the fuel that drives today s computers to solve a vast range of problems huge efforts are being put into the development of new software systems and algorithms for scientific problem solving This book explores how scientific software impacts the structure of mathematics how it creates new subfields and how new classes of mathematical problems arise The focus is on five topics where the impact is currently being felt and where important new challenges exist namely the new subfield of parallel and geometric computations the emergence of symbolic computation systems into general use the potential emergence of new high level mathematical systems and the crucial question of how to measure the performance of mathematical problem solving tools

Enabling Technologies for Computational Science Elias N. Houstis,John R. Rice,Efstratios Gallopoulos,Randall Bramley,2012-12-06 Enabling Technologies for Computational Science assesses future application computing needs identifies research directions in problem solving environments PSEs addresses multi disciplinary environments operating on the Web proposes methodologies and software architectures for building adaptive and human centered PSEs and describes the role of symbolic computing in scientific and engineering PSEs The book also includes an extensive bibliography of over 400 references Enabling Technologies for Computational Science illustrates the extremely broad and interdisciplinary nature of the creation and application of PSEs Authors represent academia government laboratories and industry and come from eight distinct disciplines chemical engineering computer science ecology electrical engineering mathematics mechanical engineering psychology and wood sciences This breadth and diversity extends into the computer science aspects of PSEs These papers deal with topics such as artificial intelligence computer human interaction control data mining graphics language design and implementation networking numerical analysis performance evaluation and symbolic computing Enabling Technologies for Computational Science provides an assessment of the state of the art and a road map to the future in the area of problem solving environments for scientific computing This book is suitable as a reference for scientists from a variety of disciplines interested in using PSEs for their research **Computational Science and Its Applications - ICCSA 2003** Vipin Kumar,2003-05-08 The three volume set LNCS 2667 LNCS 2668 and LNCS 2669 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2003 held in Montreal Canada in May 2003 The three volumes present more than 300 papers and span the whole range of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The proceedings give a unique account of recent results in computational science *Computer Algebra in Scientific Computing* Vladimir P. Gerdt,Wolfram Koepf,Ernst W. Mayr,Evgenii V. Vorozhtsov,2013-08-15 This book constitutes the proceedings of the 14th International Workshop on Computer Algebra in Scientific Computing CASC 2013 held in Berlin Germany in September 2013 The 33 full papers presented were carefully reviewed and selected for inclusion in

this book The papers address issues such as polynomial algebra the solution of tropical linear systems and tropical polynomial systems the theory of matrices the use of computer algebra for the investigation of various mathematical and applied topics related to ordinary differential equations ODEs applications of symbolic computations for solving partial differential equations PDEs in mathematical physics problems arising at the application of computer algebra methods for finding infinitesimal symmetries applications of symbolic and symbolic numeric algorithms in mechanics and physics automatic differentiation the application of the CAS Mathematica for the simulation of quantum error correction in quantum computing the application of the CAS GAP for the enumeration of Schur rings over the group A5 constructive computation of zero separation bounds for arithmetic expressions the parallel implementation of fast Fourier transforms with the aid of the Spiral library generation system the use of object oriented languages such as Java or Scala for implementation of categories as type classes a survey of industrial applications of approximate computer algebra **Automated Deduction in Geometry** Francisco Botana,Tomas Recio,2007-12-06 The papers in this volume show the lively variety of topics and methods in automated deduction in geometry and their applicability to different branches of mathematics as well as to other sciences and technologies The book is made up of the thoroughly refereed post proceedings of the 6th International Workshop on Automated Deduction in Geometry ADG 2006 held at Pontevedra Spain in 2006 There are a total of 13 revised full papers selected from a number of submissions **EUROCAL '87** James H. Davenport,James Harold Davenport,1989-08-09 This is the sixth in a series of conference proceedings of international conferences on computer algebra held in Europe All the preceding ones have also been published as Lecture Notes in Computer Science They contain original research material not published elsewhere and a few invited lectures summarising the state of the art Computer algebra is the science of using computers to do algebraic calculations rather than the purely arithmetic calculations which we all know computers can do These calculations may be polynomial like calculations one thread of the conference was devoted to polynomial algorithms or may relate to other areas of mathematics such as integration the solution of differential equations or geometry a second thread was devoted to those topics The calculations can be applied in a wide range of scientific and engineering subjects and in branches of mathematics Physics has benefitted especially from these calculations and the proceedings contain many papers on this and also papers on applications in computer aided design and robotics to name but a few other applications The third thread of the proceedings was devoted to these applications and to the computer algebra systems which perform these calculations Recent Advances in Iterative Methods Gene Golub,Anne Greenbaum,Mitchell Luskin,2012-12-06 This IMA Volume in Mathematics and its Applications RECENT ADVANCES IN ITERATIVE METHODS is based on the proceedings of a workshop that was an integral part of the 1991 92 IMA program on Applied Linear Algebra Large systems of matrix equations arise frequently in applications and they have the prop erty that they are sparse and or structured The purpose of this workshop was to bring together researchers in numerical analysis and various ap plication areas to discuss where such

problems arise and possible meth ods of solution The last two days of the meeting were a celebration dedicated to Gene Golub on the occasion of his sixtieth birthday with the program arranged by Jack Dongarra and Paul van Dooren We are grateful to Richard Brualdi George Cybenko Alan George Gene Golub Mitchell Luskin and Paul Van Dooren for planning and implementing the year long program We especially thank Gene Golub Anne Greenbaum and Mitchell Luskin for organizing this workshop and editing the proceed ings The financial support of the National Science Foundation and the Min nesota Supercomputer Institute made the workshop possible A vner Friedman Willard Miller Jr xi PREFACE The solution of very large linear algebra problems is an integral part of many scientific computations   **Linear Algebra, Markov Chains, and Queueing Models** Carl D. Meyer,Robert J. Plemmons,2012-12-06 This IMA Volume in Mathematics and its Applications LINEAR ALGEBRA MARKOV CHAINS AND QUEUEING MODELS is based on the proceedings of a workshop which was an integral part of the 1991 92 IMA program on Applied Linear Algebra We thank Carl Meyer and R J Plemmons for editing the proceedings We also take this opportunity to thank the National Science Founda tion whose financial support made the workshop possible A vner Friedman Willard Miller Jr xi PREFACE This volume contains some of the lectures given at the workshop Lin ear Algebra Markov Chains and Queueing Models held January 13 17 1992 as part of the Year of Applied Linear Algebra at the Institute for Mathematics and its Applications Markov chains and queueing models play an increasingly important role in the understanding of complex systems such as computer communi cation and transportation systems Linear algebra is an indispensable tool in such research and this volume collects a selection of important papers in this area The articles contained herein are representative of the underlying purpose of the workshop which was to bring together practitioners and re searchers from the areas of linear algebra numerical analysis and queueing theory who share a common interest of analyzing and solving finite state Markov chains The papers in this volume are grouped into three major categories perturbation theory and error analysis iterative methods and applications regarding queueing models   *On the Evolution of Phase Boundaries* Morton E. Gurtin,Geoffrey B. McFadden,2012-12-06 This IMA Volume in Mathematics and its Applications ON THE EVOLUTION OF PHASE BOUNDARIES is based on the proceedings of a workshop which was an integral part of the 1990 91 IMA program on Phase Transitions and Free Boundaries The purpose of the workshop was to bring together mathematicians and other scientists working on the Stefan problem and related theories for modeling physical phenomena that occurs in two phase systems We thank M E Gurtin and G McFadden for editing the proceedings We also take this opportunity to thank the National Science Foundation whose financial support made the workshop possible A vner Friedman Willard Miller Jr PREFACE A primary goal of the IMA workshop on the Evolution of Phase Boundaries from September 17 21 1990 was to emphasize the interdisciplinary nature of contempo rary research in this field research which combines ideas from nonlinear partial dif ferential equations asymptotic analysis numerical computation and experimental science The workshop brought together researchers from several disciplines includ ing mathematics physics and both

experimental and theoretical materials science   Linear Algebra for Signal Processing Adam Bojanczyk,George Cybenko,2012-12-06 Signal processing applications have burgeoned in the past decade During the same time signal processing techniques have matured rapidly and now include tools from many areas of mathematics computer science physics and engineering This trend will continue as many new signal processing applications are opening up in consumer products and communications systems In particular signal processing has been making increasingly sophisticated use of linear algebra on both theoretical and algorithmic fronts This volume gives particular emphasis to exposing broader contexts of the signal processing problems so that the impact of algorithms and hardware can be better understood it brings together the writings of signal processing engineers computer engineers and applied linear algebraists in an exchange of problems theories and techniques This volume will be of interest to both applied mathematicians and engineers   **Degenerate Diffusions** Wei-Ming Ni,L.A. Peletier,J.L. Vazquez,2012-12-06 This IMA Volume in Mathematics and its Applications DEGENERATE DIFFUSIONS is based on the proceedings of a workshop which was an integral part of the 1990 91 IMA program on Phase Transitions and Free Boundaries The aim of this workshop was to provide some focus in the study of degenerate diffusion equations and by involving scientists and engineers as well as mathematicians to keep this focus firmly linked to concrete problems We thank Wei Ming Ni L A Peletier and J L Vazquez for organizing the meet ing We especially thank Wei Ming Ni for editing the proceedings We also take this opportunity to thank those agencies whose financial support made the workshop possible the Army Research Office the National Science Foun dation and the Office of Naval Research A vner Friedman Willard Miller Jr PREFACE This volume is the proceedings of the IMA workshop Degenerate Diffusions held at the University of Minnesota from May 13 to May 18 1991   **Control and Optimal Design of Distributed Parameter Systems** John E. Lagnese,David L. Russell,Luther W. White,2012-12-06 The articles in this volume focus on control theory of systems governed by nonlinear linear partial differential equations identification and optimal design of such systems and modelling of advanced materials Optimal design of systems governed by PDEs is a relatively new area of study now particularly relevant because of interest in optimization of fluid flow in domains of variable configuration advanced and composite materials studies and smart materials which include possibilities for built in sensing and control actuation The book will be of interest to both applied mathematicians and to engineers   **Towards Higher Categories** John C. Baez,J. Peter May,2009-09-24 The purpose of this book is to give background for those who would like to delve into some higher category theory It is not a primer on higher category theory itself It begins with a paper by John Baez and Michael Shulman which explores informally by analogy and direct connection how cohomology and other tools of algebraic topology are seen through the eyes of n category theory The idea is to give some of the motivations behind this subject There are then two survey articles by Julie Bergner and Simona Paoli about infinity 1 categories and about the algebraic modelling of homotopy n types These are areas that are particularly well understood and where a fully integrated theory exists The main focus of the

book is on the richness to be found in the theory of bicategories which gives the essential starting point towards the understanding of higher categorical structures An article by Stephen Lack gives a thorough but informal guide to this theory A paper by Larry Breen on the theory of gerbes shows how such categorical structures appear in differential geometry This book is dedicated to Max Kelly the founder of the Australian school of category theory and an historical paper by Ross Street describes its development **Flow Control** Max D. Gunzburger,2012-12-06 The articles in this volume cover recent work in the area of flow control from the point of view of both engineers and mathematicians These writings are especially timely as they coincide with the emergence of the role of mathematics and systematic engineering analysis in flow control and optimization Recently this role has significantly expanded to the point where now sophisticated mathematical and computational tools are being increasingly applied to the control and optimization of fluid flows These articles document some important work that has gone on to influence the practical everyday design of flows moreover they represent the state of the art in the formulation analysis and computation of flow control problems This volume will be of interest to both applied mathematicians and to engineers **New Directions in Time Series Analysis** David Brillinger,Peter Caines,John Geweke,Emanuel Parzen,Murray Rosenblatt,Murad S. Taqqu,2012-12-06 This IMA Volume in Mathematics and its Applications NEW DIRECTIONS IN TIME SERIES ANALYSIS PART II is based on the proceedings of the IMA summer program New Directions in Time Series Analysis We are grateful to David Brillinger Peter Caines John Geweke Emanuel Parzen Murray Rosenblatt and Murad Taqqu for organizing the program and we hope that the remarkable excitement and enthusiasm of the participants in this interdisciplinary effort are communicated to the reader A vner Friedman Willard Miller Jr PREFACE Time Series Analysis is truly an interdisciplinary field because development of its theory and methods requires interaction between the diverse disciplines in which it is applied To harness its great potential strong interaction must be encouraged among the diverse community of statisticians and other scientists whose research involves the analysis of time series data This was the goal of the IMA Workshop on New Directions in Time Series Analysis The workshop was held July 2 July 27 1990 and was organized by a committee consisting of Emanuel Parzen chair David Brillinger Murray Rosenblatt Murad S Taqqu John Geweke and Peter Caines Constant guidance and encouragement was provided by Avner Friedman Director of the IMA and his very helpful and efficient staff The workshops were organized by weeks It may be of interest to record the themes that were announced in the IMA newsletter describing the workshop l *Shock Induced Transitions and Phase Structures in General Media* J.E. Dunn,Roger Fosdick,Marshall Slemrod,2012-12-06 This IMA Volume in Mathematics and its Applications SHOCK INDUCED TRANSITIONS AND PHASE STRUCTURES IN GENERAL MEDIA is based on the proceedings of a workshop that was an integral part of the 1990 91 IMA program on Phase Transitions and Free Boundaries The workshop focused on the thermodynamics and mechanics of dynamic phase transitions that are mainly inertially driven and brought together physicists metallurgists mathematicians engineers and molecular dynamicists with interests in these

problems Financial support of the National Science Foundation made the meeting pos sible We are grateful to J E Dunn Roger Fosdick and Marshall Slemrod for organizing the meeting and editing the proceedings A vner Friedman Willard Miller Jr PREFACE When a body is subjected to a strong shock the material may suffer severe local structural changes Rapid solidification liquification or vaporization can oc cur and moreover complex structural heterogeneity is often left in the wake of the passing wave Thus inertially driven shock waves raise fundamental questions involving experiment theory and mathematics which bear on phase stability and metastability as well as on reaction kinetics and appropriate measures of phase structure   Free Boundaries in Viscous Flows Robert A. Brown,Stephen H. Davis,2012-12-06 It is increasingly the case that models of natural phenomena and materials processing systems involve viscous flows with free surfaces These free boundaries are interfaces of the fluid with either second immiscible fluids or else deformable solid boundaries The deformation can be due to mechanical displacement or as is the case here due to phase transformation the solid can melt or freeze This volume highlights a broad range of subjects on interfacial phenomena There is an overview of the mathematical description of viscous free surface flows a description of the current understanding of mathematical issues that arise in these models and a discussion of high order accuracy boundary integral methods for the solution of viscous free surface flows There is the mathematical analysis of particular flows long wave instabilities in viscous film flows analysis of long wave instabilities leading to Marangoni convection and de scriptions of the interaction of convection with morphological stability during directional solidification This book is geared toward anyone with an interest in free boundary problems from mathematical analysts to material scientists it will be useful to applied mathematicians physicists and engineers alike

Patterns and Dynamics in Reactive Media Rutherford Aris,Donald G. Aronson,Harry L. Swinney,2012-12-06 Ever since the seminal works on traveling waves and morphogenesis by Fisher by Kolmogorov Petrovski and Piscunov and by Turing scientists from many disciplines have been fascinated by questions concerning the formation of steady or dynamic patterns in reactive media Contributions to this volume have been made by chemists chemical engineers mathematicians both pure and applied and physicists The topics covered range from reports of experimental studies through descriptions of numerical experiments to rather abstract theoretical investigations each exhibiting different aspects of a very diverse field

Turbulence in Fluid Flows George R. Sell,Ciprian Foias,Roger Temam,2012-12-06 The articles in this volume are based on recent research on the phenomenon of turbulence in fluid flows collected by the Institute for Mathematics and its Applications This volume looks into the dynamical properties of the solutions of the Navier Stokes equations the equations of motion of incompressible viscous fluid flows in order to better understand this phenomenon Although it is a basic issue of science it has implications over a wide spectrum of modern technological applications The articles offer a variety of approaches to the Navier Stokes problems and related issues This book should be of interest to both applied mathematicians and engineers   Adaptive Control, Filtering, and Signal Processing K.J. Aström,G.C. Goodwin,P.R. Kumar,2012-12-06 The

area of adaptive systems which encompasses recursive identification adaptive control filtering and signal processing has been one of the most active areas of the past decade Since adaptive controllers are fundamentally nonlinear controllers which are applied to nominally linear possibly stochastic and time varying systems their theoretical analysis is usually very difficult Nevertheless over the past decade much fundamental progress has been made on some key questions concerning their stability convergence performance and robustness Moreover adaptive controllers have been successfully employed in numerous practical applications and have even entered the marketplace

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