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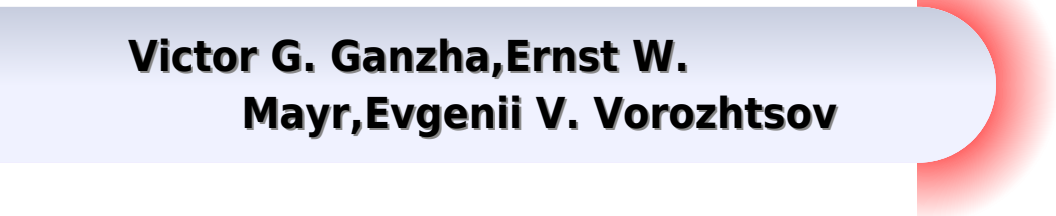
Mathematical Aspects of Scientific Software



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Mathematical Aspects Of Scientific Software

**Victor G. Ganzha, Ernst W.
Mayr, Evgenii V. Vorozhtsov**



Mathematical Aspects Of Scientific Software:

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

Elements of Scientific Computing Aslak Tveito, Hans Petter Langtangen, Bjørn Frederik Nielsen, Xing Cai, 2010-09-24 Science used to be experiments and theory now it is experiments theory and computations The computational approach to understanding nature and technology is currently flowering in many fields such as physics geophysics astrophysics chemistry biology and most engineering disciplines This book is a gentle introduction to such computational methods where the techniques are explained through examples It is our goal to teach principles and ideas that carry over from field to field You will learn basic methods and how to implement them In order to gain the most from this text you will need prior knowledge of calculus basic linear algebra and elementary programming

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

Scientific Software Design Damian Rouson, Jim Xia, Xiaofeng Xu, 2011-04-29 The authors analyze how the structure of a package determines its developmental complexity according to such measures as bug search times and

documentation information content The work presents arguments for why these issues impact solution cost and time more than does scalable performance The final chapter explores the question of scalable execution and shows how scalable design relates to scalable execution The book's focus is on program organization which has received considerable attention in the broader software engineering community where graphical description standards for modeling software structure and behavior have been developed by computer scientists These discussions might be enriched by engineers who write scientific codes This book aims to bring such scientific programmers into discussion with computer scientists The authors do so by introducing object oriented software design patterns in the context of scientific simulation

Computer Algebra in Scientific Computing CASC'99 Victor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 The development of powerful computer algebra systems has considerably extended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now apply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer algebra in scientific computing The first conference in this sequence CASC 98 was held 20-24 April 1998 in St Petersburg Russia This volume contains revised versions of the papers submitted by the participants and accepted by the program committee after a thorough reviewing process The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scientific computing symbolic numeric analysis and solving differential equations efficient computations with polynomials groups matrices and other related objects special purpose programming environments application to physics mechanics optics and to other areas In particular a significant group of papers deals with applications of computer algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics

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 A_5 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

Computation with Finitely Presented Groups Charles C. Sims, 1994-01-28 Research in computational group theory an active subfield of computational algebra has emphasised three areas finite permutation groups finite solvable groups and finitely presented groups This book deals with the third of these areas The author emphasises the connections with fundamental algorithms from theoretical computer science particularly the theory of automata and formal languages computational number theory and computational commutative algebra The LLL lattice reduction algorithm and various algorithms for Hermite and Smith normal forms from computational number theory are used to study the abelian quotients of a finitely presented group The work of Baumslag Cannonito and Miller on computing nonabelian polycyclic quotients is described as a generalisation of Buchberger's Gröbner basis methods to right ideals in the integral group ring of a polycyclic group Researchers in computational group theory mathematicians interested in finitely presented groups and theoretical computer scientists will find this book useful

Direct and Inverse Methods in Nonlinear Evolution Equations Robert M. Conte, Franco Magri, Micheline Musette, Junkichi Satsuma, Pavel Winternitz, 2003-10-21 Many physical phenomena are described by nonlinear evolution equation Those that are integrable provide various mathematical methods presented by experts in this tutorial book to find special analytic solutions to both integrable and partially integrable equations The direct method to build solutions includes the analysis of singularities la Painlevé Lie symmetries leaving the equation invariant extension of the Hirota method construction of the nonlinear superposition formula The main inverse method described here relies on the bi hamiltonian structure of integrable equations The book also presents some extension to equations with discrete independent and dependent variables The different chapters face from different points of view the theory of exact solutions and of the complete integrability of nonlinear evolution equations Several examples and applications to concrete problems allow the reader to experience directly the power of the different machineries involved

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

Intelligent Mathematical Software Systems E.N. Houstis, R. Vichnevetsky, J.R. Rice, 1990-07-03 Most of the well known mathematical software systems are batch oriented though in the past few years there have been attempts to incorporate knowledge or expertise into these systems A number of developments have helped

in making the systems more powerful and user friendly algorithm parameter selection for the solution of well defined mathematical engineering problems parallel computing computer graphics technology interface development tools and of course the years of experience with these systems and the increase in available computing power have made it practical to fulfill the potential seen in the early years of their development This book covers four main areas of the subject Application Oriented Expert Systems Advisory Systems Knowledge Manipulation Issues and User Interfaces **Artificial Intelligence and Symbolic Mathematical Computation** Jaques Calmet, John A. Campbell, Jochen Pfalzgraf, 1996-09-11 Spine title AISMC 3 artificial intelligence and symbolic mathematical computation **Computational Fluid Dynamics and Reacting Gas Flows** Bjorn Engquist, Mitchell Luskin, Andrew Majda, 2012-12-06 This IMA Volume in Mathematics and its Applications COMPUTATIONAL FLUID DYNAMICS AND REACTING GAS FLOWS is in part the proceedings of a workshop which was an integral part of the 1986 87 IMA program on SCIENTIFIC COMPUTATION We are grateful to the Scientific Committee Bjorn Engquist Chairman Roland Glowinski Mitchell Luskin and Andrew Majda for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizers Bjorn Engquist Mitchell Luskin and Andrew Majda for organizing a workshop which brought together many of the leading researchers in the area of computational fluid dynamics George R Sell Hans Weinberger PREFACE Computational fluid dynamics has always been of central importance in scientific computing It is also a field which clearly displays the essential theme of interaction between mathematics physics and computer science Therefore it was natural for the first workshop of the 1986 87 program on scientific computing at the Institute for Mathematics and Its Applications to concentrate on computational fluid dynamics In the workshop more traditional fields were mixed with fields of emerging importance such as reacting gas flows and non Newtonian flows The workshop was marked by a high level of interaction and discussion among researchers representing varied schools of thought and countries Mathematical Software - ICMS 2016 Gert-Martin Greuel, Thorsten Koch, Peter Paule, Andrew Sommese, 2016-07-05 This book constitutes the proceedings of the 5th International Conference on Mathematical Software ICMS 2015 held in Berlin Germany in July 2016 The 68 papers included in this volume were carefully reviewed and selected from numerous submissions The papers are organized in topical sections named univalent foundations and proof assistants software for mathematical reasoning and applications algebraic and toric geometry algebraic geometry in applications software of polynomial systems software for numerically solving polynomial systems high precision arithmetic effective analysis and special functions mathematical optimization interactive operation to scientific artwork and mathematical reasoning information services for mathematics software services models and data semDML towards a semantic layer of a world digital mathematical library miscellanea **A Challenge for Mathematics Education**, 2004-06-17 Fruto de un encuentro celebrado en Vilanova i la Geltr Espa a en julio de 2002 el libro que presentamos hoy trata uno de los temas de gran importancia para la reflexi n pedag gica actual el papel de la globalizaci n vehiculado por lo sugerente de lo com n y de

lo diverso en educaci n matem tica y sus desaf os **KdV '95** Michiel Hazewinkel,Hans W. Capel,Eduard M. de Jager,2012-12-06 Exactly one hundred years ago in 1895 G de Vries under the supervision of D J Korteweg defended his thesis on what is now known as the Korteweg de Vries Equation They published a joint paper in 1895 in the Philosophical Magazine entitled On the change of form of long waves advancing in a rectangular canal and on a new type of long stationary wave and for the next 60 years or so no other relevant work seemed to have been done In the 1960s however research on this and related equations exploded There are now some 3100 papers in mathematics and physics that contain a mention of the phrase Korteweg de Vries equation in their title or abstract and there are thousands more in other areas such as biology chemistry electronics geology oceanology meteorology etc And of course the KdV equation is only one of what are now called Liouville completely integrable systems The KdV and its relatives continually turn up in situations when one wishes to incorporate nonlinear and dispersive effects into wave type phenomena This centenary provides a unique occasion to survey as many different aspects of the KdV and related equations The KdV equation has depth subtlety and a breadth of applications that make it a rarity deserving special attention and exposition **Algebraic Operads** Murray R. Bremner,Vladimir Dotsenko,2016-04-06 This book presents a systematic treatment of Grobner bases in several contexts The book builds up to the theory of Grobner bases for operads due to the second author and Khoroshkin as well as various applications of the corresponding diamond lemmas in algebra Throughout the book both the mathematical theory and computational methods are emphasized and numerous algorithms examples and exercises are provided to clarify and illustrate the concrete meaning of abstract theory *Computational Statistics* Yadolah Dodge,Joe Whittaker,2012-12-06 The papers assembled in this book were presented at the biannual symposium of Inter national Association for Statistical Computing in Neuchatel Switzerland in August of 1992 This congress marked the tenth such meeting from its inception in 1974 at Vienna and maintained the tradition of providing a forum for the open discussion of progress made in computer oriented statistics and the dissemination of new ideas throughout the statistical community It was gratifying to see how well the groups of theoretical statisticians software developers and applied research workers were represented whose mixing is an event made uniquely possible by this symposium While maintaining traditions certain new features have been introduced at this conference there were a larger number of invited speakers there was more commercial sponsorship and exhibition space and a larger body of proceedings have been published The structure of the proceedings follows a standard format the papers have been grouped together according to a rough subject matter classification and within topic follow an approximate alphabetical order The papers are published in two volumes according to the emphasis of the topics volume I gives a slight leaning towards statistics and modelling while volume II is focussed more on computation but this is certainly only a crude distinction and the volumes have to be thought of as the result of a single enterprise *Computerized Symbolic Manipulation in Mechanics* Edwin Kreuzer,2014-05-04 The aim of this book is to present important software tools basic

concepts methods and highly sophisticated applications of computerized symbolic manipulation to mechanics problems An overview about general purpose symbolic software is followed by general guidelines how to develop and implement high quality computer algebra code The theoretical background including modeling techniques for mechanical systems is provided which allows for the computer aided generation of the symbolic equation of motion for multibody systems It is shown how the governing equations for different types of problems in structural mechanics can be automatically derived and how to implement finite element techniques via computer algebra software Perturbation methods as a very powerful approach for nonlinear problems are discussed in detail and are demonstrated for a number of applications The applications covered in this book represent some of the most advanced topics in the rapidly growing field of research on symbolic computation

Demand Bibliography ,1989 Numerical Algorithms for Modern Parallel Computer Architectures Martin

Schultz,2012-12-06 Parallel computers have started to completely revolutionize scientific computation Articles in this volume represent applied mathematics computer science and application aspects of parallel scientific computing Major advances are discussed dealing with multiprocessor architectures parallel algorithm development and analysis parallel systems and programming languages The optimization of the application of massively parallel architectures to real world problems will provide the impetus for the development of entirely new approaches to these technical situations

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