



Symbolic Computing

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Symbolic Computing

**Neil J. Calkin, Eunice Y. S. Chan, Robert
M. Corless**

Symbolic Computing:

Computer Algebra and Symbolic Computation Joel S. Cohen, 2002-07-19 This book provides a systematic approach for the algorithmic formulation and implementation of mathematical operations in computer algebra programming languages. The viewpoint is that mathematical expressions represented by expression trees are the data objects of computer algebra programs and by using a few primitive operations that analyze and

Symbolic Computation Robert Grossman, 1989-01-01 Mathematics of Computing Numerical Analysis

Symbolic-Numeric Computation Dongming Wang, Li-Hong Zhi, 2007-06-25 The growing demand of speed, accuracy, and reliability in scientific and engineering computing has been accelerating the merging of symbolic and numeric computations. These two types of computation coexist in mathematics yet are separated in traditional research of mathematical computation. This book presents 27 research articles on the integration and interaction of symbolic and numeric computation.

Computer - Human Interaction in Symbolic Computation Norbert Kajler, 2012-12-06 The well-attended March 1994 HISe workshop in Amsterdam was a very lively conference which stimulated much discussion and human-human interaction. As the editor of this volume points out, the Amsterdam meeting was just part of a year-long project that brought many people together from many parts of the world. The value of the effort was not only in generating new ideas but in making people aware of work that has gone on on many fronts in using computers to make mathematics more understandable. The author was very glad he attended the workshop. In thinking back over the conference and in reading the papers in this collection, the author feels there are perhaps four major conclusions to be drawn from the current state of work:

1. graphics is very important but such features should be made as easy to use as possible
2. symbolic mathematical computation is very powerful but the user must be able to see intermediate steps
3. system design has made much progress but for semester-long coursework and book-length productions we need more tools to help composition and navigation
4. monolithic systems are perhaps not the best direction for the future as different users have different needs and may have to link together many kinds of tools.

The editor of this volume and the authors of the papers presented here have also reached and documented similar conclusions.

Symbolic Computing Nils M. Holm, 2005-01 Symbolic Computing covers various fundamentals of computing science in terms of purely symbolic LISP. Topics include, for example, functions, recursion, sorting, backtracking, parsing, arbitrary precision arithmetics, formal semantics, and scoping strategies. Pure LISP is an elegant, flexible, and powerful mathematical system and programming language. It shares a lot of properties with modern dialects of LISP such as Common Lisp and Scheme.

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

Numerical Python Robert Johansson, 2015-10-07 Numerical Python by Robert Johansson shows you how to leverage the numerical and mathematical modules in Python and its Standard Library as well as popular open source numerical Python packages like NumPy FiPy matplotlib and more to numerically compute solutions and mathematically model applications in a number of areas like big data cloud computing financial engineering business management and more After reading and using this book you ll get some takeaway case study examples of applications that can be found in areas like business management big data cloud computing financial engineering i e options trading investment alternatives and even games Up until very recently Python was mostly regarded as just a web scripting language Well computational scientists and engineers have recently discovered the flexibility and power of Python to do more Big data analytics and cloud computing programmers are seeing Python s immense use Financial engineers are also now employing Python in their work Python seems to be evolving as a language that can even rival C Fortran and Pascal Delphi for numerical and mathematical computations

Official Gazette of the United States Patent and Trademark Office, 2004 *Computational Discovery on Jupyter* Neil J. Calkin, Eunice Y. S. Chan, Robert M. Corless, 2023-11-07 This book uses Python to teach mathematics not found in the standard curriculum so students learn a popular programming language as well as some interesting mathematics Videos images programs programming activities pencil and paper activities and associated Jupyter Notebooks accompany the text and readers are encouraged to interact with and extend the material as well as contribute their own notebooks Indeed some of the material was created discovered invented published first by the authors students Useful pedagogical features include using an active learning approach with topics not typically found in a standard math curriculum introducing concepts using programming not proof with the goal of preparing readers for the need for proof and accompanying all activities with a full discussion Computational Discovery on Jupyter is for upper level high school and lower level college students Graduate students in mathematics will also find it of interest

Python Scripting for Computational Science Hans Petter Langtangen, 2009-01-09 With a primary focus on examples and applications of relevance to computational scientists this brilliantly useful book shows computational scientists how to develop tailored flexible and human efficient working environments built from small scripts written in the easy to learn high level Python language All the tools and examples in this book are open source codes This third edition features lots of new material It is also released after a comprehensive reorganization of the text The author has inserted improved examples and tools and updated information as well as correcting any errors that crept in to the first imprint

Exploring Artificial Intelligence Howard E. Shrobe, 2014-05-12 Exploring Artificial Intelligence Survey Talks from the National Conference on Artificial Intelligence provides information pertinent to the distinct subareas of artificial

intelligence research This book discusses developments in machine learning techniques Organized into six parts encompassing 16 chapters this book begins with an overview of intelligent tutoring systems which describes how to guide a student to learn new concepts This text then links closely with one of the concerns of intelligent tutoring systems namely how to interact through the utilization of natural language Other chapters consider the various aspects of natural language understanding and survey the huge body of work that tries to characterize heuristic search programs This book discusses as well how computer programs can create plans to satisfy goals The final chapter deals with computational facilities that support This book is a valuable resource for cognitive scientists psychologists domain experts computer scientists instructional designers expert teachers and research workers

Algebra for Symbolic Computation Antonio

Machi,2012-07-10 This book deals with several topics in algebra useful for computer science applications and the symbolic treatment of algebraic problems pointing out and discussing their algorithmic nature The topics covered range from classical results such as the Euclidean algorithm the Chinese remainder theorem and polynomial interpolation to p adic expansions of rational and algebraic numbers and rational functions to reach the problem of the polynomial factorisation especially via Berlekamp s method and the discrete Fourier transform Basic algebra concepts are revised in a form suited for

implementation on a computer algebra system

Parallel Symbolic Computing: Languages, Systems, and Applications

Robert H. Halstead,Takayasu Ito,1993-11-03 Parallel and distributed computing are becoming increasingly important as cost effective ways to achieve high computational performance Symbolic computations are notable for their use of irregular data structures and hence parallel symbolic computing has its own distinctive set of technical challenges The papers in this book are based on presentations made at a workshop at MIT in October 1992 They present results in a wide range of areas including speculative computation scheduling techniques program development tools and environments programming languages and systems models of concurrency and distribution parallel computer architecture and symbolic applications

Symbolic and Numerical Computation for Artificial Intelligence Bruce R. Donald,Deepak Kapur,Joseph L. Mundy,1992 Over the last decade there has been considerable progress in investigating methods of symbolic mathematics in many application areas of computer science and artificial intelligence such as engineering design solid and geometric modelling robotics and motion planning and machine vision This research has produced few applications within engineering and robotics because of the combinatorial cost of symbolic techniques Therefore it is essential to investigate approaches for systematic integration of symbolic with numerical techniques which are efficient for handling the huge amount of data that arises in practical applications while at the same time maintain a logically consistent solution framework Symbolic and Numerical Computation for Artificial Intelligence gives an overview of applications in machine vision robotics and engineering design where there is a need for integrating symbolic and numerical methods It also illustrates the case for an integrated symbolic and numerical environment to support the needs of these applications This book will be essential reading

for researchers in applied mathematics symbolic and algebraic manipulation and applied artificial intell [SIAM Journal on Computing](#) Society for Industrial and Applied Mathematics,1990 [Mathematics for Physical Science and Engineering](#) Frank E. Harris,2014-05-24 Mathematics for Physical Science and Engineering is a complete text in mathematics for physical science that includes the use of symbolic computation to illustrate the mathematical concepts and enable the solution of a broader range of practical problems This book enables professionals to connect their knowledge of mathematics to either or both of the symbolic languages Maple and Mathematica The book begins by introducing the reader to symbolic computation and how it can be applied to solve a broad range of practical problems Chapters cover topics that include infinite series complex numbers and functions vectors and matrices vector analysis tensor analysis ordinary differential equations general vector spaces Fourier series partial differential equations complex variable theory and probability and statistics Each important concept is clarified to students through the use of a simple example and often an illustration This book is an ideal reference for upper level undergraduates in physical chemistry physics engineering and advanced applied mathematics courses It will also appeal to graduate physicists engineers and related specialties seeking to address practical problems in physical science Clarifies each important concept to students through the use of a simple example and often an illustration Provides quick reference for students through multiple appendices including an overview of terms in most commonly used applications Mathematica Maple Shows how symbolic computing enables solving a broad range of practical problems

Numerical and Symbolic Scientific Computing Ulrich Langer,Peter Paule,2011-11-19 The book presents the state of the art and results and also includes articles pointing to future developments Most of the articles center around the theme of linear partial differential equations Major aspects are fast solvers in elastoplasticity symbolic analysis for boundary problems symbolic treatment of operators computer algebra and finite element methods a symbolic approach to finite difference schemes cylindrical algebraic decomposition and local Fourier analysis and white noise analysis for stochastic partial differential equations Further numerical symbolic topics range from applied and computational geometry to computer algebra methods used for total variation energy minimization **Advances in the Design of Symbolic Computation**

Systems Alfonso Miola,1997-03-27 Considers methodological aspects related to design and implementation of symbolic computation systems This volume describes the proposed treatment of mathematical objects via techniques for method abstraction structures classification and exact representation the programming methodology which supports the design and implementation issues [SIAM Journal on Scientific and Statistical Computing](#) Society for Industrial and Applied

Mathematics,1990 **Symbolic Integration I** Manuel Bronstein,2005-12-12 Symbolic Integration I is destined to become the standard reference work in the field Manuel Bronstein is a leading expert on this topic and his book is the first to treat the subject both comprehensively and in sufficient detail incorporating new results along the way The book addresses mathematicians and computer scientists interested in symbolic computation developers and programmers of computer

algebra systems as well as users of symbolic integration methods Many algorithms are given in pseudocode ready for immediate implementation making the book equally suitable as a textbook for lecture courses on symbolic integration This second edition offers a new chapter on parallel integration a number of other improvements and a couple of additional exercises From the reviews of the first edition The writing is excellent and the author provides a clear and coherent treatment of the problem of symbolic integration of transcendental functions F Winkler Computing Reviews 1997

Whispering the Secrets of Language: An Mental Quest through **Symbolic Computing**

In a digitally-driven world where monitors reign great and instant conversation drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within phrases usually go unheard. However, situated within the pages of **Symbolic Computing** a fascinating fictional prize blinking with raw thoughts, lies a fantastic quest waiting to be undertaken. Composed by a talented wordsmith, this charming opus attracts viewers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the fabric of each and every word. Within the psychological depths with this moving evaluation, we will embark upon a heartfelt exploration of the book is key themes, dissect its charming publishing type, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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