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Applications of Computer Algebra Richard Pavelle,2012-12-06 Today certain computer software systems exist which surpass the computational ability of researchers when their mathematical techniques are applied to many areas of science and engineering These computer systems can perform a large portion of the calculations seen in mathematical analysis Despite this massive power thousands of people use these systems as a routine resource for everyday calculations These software programs are commonly called Computer Algebra systems They have names such as MACSYMA MAPLE muMATH REDUCE and SMP They are receiving credit as a computational aid with in creasing regularity in articles in the scientific and engineering literature When most people think about computers and scientific research these days they imagine a machine grinding away processing numbers arithmetically It is not generally realized that for a number of years computers have been performing non numeric computations This means for example that one inputs an equa tion and obtains a closed form analytic answer It is these Computer Algebra systems their capabilities and applications which are the subject of the papers in this volume

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

Computer Algebra Handbook

Johannes Grabmeier, Erich Kaltofen, Volker Weispfenning, 2012-12-06 Two ideas lie gleaming on the jeweler's velvet. The first is the calculus, the second the algorithm. The calculus and the rich body of mathematical analysis to which it gave rise made modern science possible, but it has been the algorithm that has made possible the modern world. David Berlinski, *The Advent of the Algorithm*. First there was the concept of integers, then there were symbols for integers: I, II, III, 1111, fttt, what might be called a sticks-and-stones representation; I, II, III, IV, V, Roman numerals; 1, 2, 3, 4, 5, Arabic numerals, etc. Then there were other concepts with symbols for them and algorithms, sometimes for manipulating the new symbols. Then came collections of mathematical knowledge, tables of mathematical computations, theorems, general results. Soon after algorithms came devices that provided assistance for carrying out computations. Then mathematical knowledge was organized and structured into several related concepts and symbols: logic, algebra, analysis, topology, algebraic geometry, number theory, combinatorics, etc. This organization and abstraction led to new algorithms and new fields like universal algebra. But always our symbol systems reflected and influenced our thinking, our concepts, and our algorithms.

Computer - Human Interaction in Symbolic Computation Norbert Kajler, 1998-06 There are many problems which current user interfaces either do not handle well or do not address at all. The contributions to this volume concentrate on three main areas: interactive books, computer-aided instruction, and visualization. They range from a description of a framework for authoring and browsing mathematical books and of a tool for the direct manipulation of equations and graphs to the presentation of new techniques such as the use of chains of recurrences for expediting the visualization of mathematical functions. Students, researchers, and developers involved in the design and implementation of scientific software will be able to draw upon the presented research material here to create ever more powerful and user-friendly applications.

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