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large scale problems of engineering and scientific computing often require solutions of eigenvalue and related problems this book gives a unified overview of theory algorithms and practical software for eigenvalue problems it organizes this large body of material to make it accessible for the first time to the many nonexpert users who need to choose the best state of the art algorithms and software for their problems using an informal decision tree just enough theory is introduced to identify the relevant mathematical structure that determines the best algorithm for each problem

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in many fields of modern mathematics specialised scientific software becomes increasingly important hence tremendous effort is taken by numerous groups all over the world to develop appropriate solutions this book contains surveys and research papers on mathematical software and algorithms the common thread is that the field of mathematical applications lies on the border between algebra and geometry topics include polyhedral geometry elimination theory algebraic surfaces gröbner bases triangulations of point sets and the mutual relationship this diversity is accompanied by the abundance of available software systems which often handle only special mathematical aspects therefore the volume s other focus is on solutions towards the integration of mathematical software systems this includes low level and xml based high level communication channels as well as general framework for modular systems

many physical problems are most naturally described by systems of differential and algebraic equations this book describes some of the places where differential algebraic equations dae s occur the basic mathematical theory for these equations is developed and numerical methods are presented and analyzed examples drawn from a variety of applications are used to motivate and illustrate the concepts and

techniques this classic edition originally published in 1989 is the only general dae book available it not only develops guidelines for choosing different numerical methods it is the first book to discuss dae codes including the popular dassl code an extensive discussion of backward differentiation formulas details why they have emerged as the most popular and best understood class of linear multistep methods for general dae s new to this edition is a chapter that brings the discussion of dae software up to date the objective of this monograph is to advance and consolidate the existing research results for the numerical solution of dae s the authors present results on the analysis of numerical methods and also show how these results are relevant for the solution of problems from applications they develop guidelines for problem formulation and effective use of the available mathematical software and provide extensive references for further study

containing over 300 entries in an a z format the encyclopedia of parallel computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field the encyclopedia is broad in scope covering machine organization programming languages algorithms and applications within each area concepts designs and specific implementations are presented the highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature extensive cross references to other entries within the encyclopedia support efficient user friendly searchers for immediate access to useful information key concepts presented in the encyclopedia of parallel computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as cray supercomputers ibm s cell processor and intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems topics covered speedup efficiency isoefficiency redundancy amdahls law computer architecture concepts parallel machine designs benchmarks parallel programming concepts design algorithms parallel applications this authoritative reference will be published in two formats print and online the online edition features hyperlinks to cross references and to additional significant research related subjects supercomputing high performance computing distributed computing

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and industrialists in the future science the best industrial design and manufacture the greatest medical progress and the most accurate environmental monitoring and forecasting will be done by countries that most rapidly exploit the full potential of computational science nowadays we have access to high end computer architectures and a large range of computing environments mainly as a consequence of the enormous stimulus from the various international programs on advanced computing e.g.

this thorough overview of the major computer algebra symbolic mathematical systems compares and contrasts their strengths and weaknesses and gives tutorial information for using these systems in various ways compares different packages quantitatively using standard test suites ideal for assessing the most appropriate package for a particular user or application examines the performance and future developments from a user's and developer's viewpoint internationally recognized specialists overview both the general and special purpose systems and discuss issues such as denesting nested roots complex number calculations efficiently computing special polynomials solving single equations and systems of polynomial equations computing limits multiple integration solving ordinary differential and nonlinear evolution equations code generation evaluation and computer algebra in education the historical origins computer algebra resources and equivalents for many common operations in seven major packages are also covered by providing such a comprehensive survey the experienced user is able to make an informed decision on which system s he or she might like to use it also allows a user new to computer algebra to form an idea of where to begin since each system looked at in this book uses a different language many examples are included to aid the user in adapting to these language differences these examples can be used as a guide to using the various systems once one understands the basic principles of one case the book also includes contributions which look at the broad issues of the needs of various users and future developments both from the user's and the developer's viewpoint the author is a leading figure in the development and analysis of mathematical software and is well known through the wester test suite of problems which provide a benchmark for measuring the performance of mathematical software systems the book will help develop our range of titles for applied mathematicians the book will provide a unique fully up to date and independent assessment of particular systems and will be of interest to users and purchasers of cases

this book contains 22 lectures presented at the final conference of the german research program algorithmic number theory and algebra 1991 1997 sponsored by the deutsche forschungsgemeinschaft the purpose of this research program and the meeting was to bring together developers of computer algebra software and researchers using computational methods to gain insight into experimental problems and theoretical questions in algebra and number theory the book gives an overview on algorithmic methods and results obtained during this period mainly in algebraic number theory commutative algebra and algebraic geometry and group and representation theory some of the articles illustrate the current state of the computer algebra systems developed with support from the research program for example kant and lidia for algebraic number theory singular redlog and invar for commutative algebra and invariant theory respectively and gap sysyphos and chevie for group and representation theory

automated and semi automated manipulation of so called labelled transition systems has become an important means in discovering flaws in

software and hardware systems process algebra has been developed to express such labelled transition systems algebraically which enhances the ways of manipulation by means of equational logic and term rewriting the theory of process algebra has developed rapidly over the last twenty years and verification tools have been developed on the basis of process algebra often in cooperation with techniques related to model checking this textbook gives a thorough introduction into the basics of process algebra and its applications

this book provides foundations for software specification and formal software development from the perspective of work on algebraic specification concentrating on developing basic concepts and studying their fundamental properties these foundations are built on a solid mathematical basis using elements of universal algebra category theory and logic and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development once formally defined these notions become subject to mathematical investigation and this interplay between mathematics and software engineering yields results that are mathematically interesting conceptually revealing and practically useful the theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s and their treatment is comprehensive this book contains five kinds of material the requisite mathematical foundations traditional algebraic specifications elements of the theory of institutions formal specification and development and proof methods while the book is self contained mathematical maturity and familiarity with the problems of software engineering is required and in the examples that directly relate to programming the authors assume acquaintance with the concepts of functional programming the book will be of value to researchers and advanced graduate students in the areas of programming and theoretical computer science

george collins discovery of cylindrical algebraic decomposition cad as a method for quantifier elimination qe for the elementary theory of real closed fields brought a major breakthrough in automating mathematics with recent important applications in high tech areas e g robot motion also stimulating fundamental research in computer algebra over the past three decades this volume is a state of the art collection of important papers on cad and qe and on the related area of algorithmic aspects of real geometry in addition to original contributions by s basu et al l gonzález vega et al g hagel h hong and j r sendra j r johnson s mccallum d richardson and v weispfenning and a survey by g e collins outlining the twenty year progress in cad based qe it brings together seminal publications from the area a tarski a decision method for elementary algebra and geometry g e collins quantifier elimination for real closed fields by cylindrical algebraic decomposition m j fischer and m o rabin super exponential complexity of presburger arithmetic d s arnon et al cylindrical algebraic decomposition i the basic algorithm ii an adjacency algorithm for the plane h hong an improvement of the projection operator in cylindrical algebraic decomposition g e collins and h hong partial cylindrical algebraic decomposition for quantifier elimination h hong simple solution formula construction in cylindrical algebraic decomposition based quantifier elimination j renegear recent progress on the complexity of the decision problem for the reals

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