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grundlegende Konzepte und Methoden der Linearen Algebra, auf denen diese Verfahren beruhen. Am Beispiel fehlertoleranter Codierung wird einführend gezeigt, wie diese Konzepte und Methoden in der Praxis eingesetzt werden, und am

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Beispiel von Quantenalgorithmien, die möglicherweise in Zukunft eine Rolle spielen, wird deutlich, dass die Lineare Algebra zeitinvariante Konzepte, Methoden und Verfahren bereitstellt, mit denen IT-Technologien konzipiert,

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implementiert, angewendet und weiterentwickelt werden können. Wegen seiner didaktischen Elemente wie Vorgabe von Lernzielen, Zusammenfassungen, Marginalien und einer Vielzahl von Übungen mit Musterlösungen eignet sich das Buch nicht nur als

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anschaulichen Zugang zum Thema. Die englische Originalausgabe wurde rasch zum Standardwerk in den Anfängerkursen des Massachusetts Institute of Technology sowie in vielen anderen nordamerikanischen

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Universitäten. Auch hierzulande ist dieses Buch als Grundstudiumsvorlesung für alle Studenten hervorragend lesbar. Darüber hinaus gibt es neue Impulse in der Mathematikausbildung und folgt dem Trend hin zu Anwendungen

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und Interdisziplinarität. Inhaltlich umfasst das Werk die Grundkenntnisse und die wichtigsten Anwendungen der linearen Algebra und eignet sich hervorragend für Studierende der Ingenieurwissenschaften, Naturwissenschaften, Mathematik

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und Informatik, die einen modernen Zugang zum Einsatz der linearen Algebra suchen. Ganz klar liegt hierbei der Schwerpunkt auf den Anwendungen, ohne dabei die mathematische Strenge zu vernachlässigen. Im Buch wird die

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jeweils zugrundeliegende Theorie mit zahlreichen Beispielen aus der Elektrotechnik, der Informatik, der Physik, Biologie und den Wirtschaftswissenschaften direkt verknüpft. Zahlreiche Aufgaben mit Lösungen runden das Werk

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ab.

During the past decade the interaction between control theory and linear algebra has been ever increasing, giving rise to new results in both areas. As a natural outflow of this research,

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this book presents information on this interdisciplinary area. The cross-fertilization between control and linear algebra can be found in subfields such as Numerical Linear Algebra, Canonical Forms, Ring-theoretic Methods, Matrix Theory, and Robust Control. This

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book's editors were challenged to present the latest results in these areas and to find points of common interest. This volume reflects very nicely the interaction: the range of topics seems very wide indeed, but the basic problems and techniques

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are always closely connected.
And the common denominator in
all of this is, of course, linear
algebra. This book is suitable for
both mathematicians and
students.

Proceedings of the NATO

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Advanced Study Institute, Leuven,
Belgium, August 3-14, 1992

The development of powerful
computer algebra systems has
considerably extended the scope
of problems of scientific
computing which can now be

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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

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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

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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

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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

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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

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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.

This work addresses the

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automated generation of physical-based models and model-based observers. We develop port-Hamiltonian methods, which for the first time allow a complete and consistent automation of these two processes for a large class of interconnected systems.

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The SCAN conference, the International Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics, takes place biannually under the joint auspices of GAMM (Gesellschaft für Angewandte

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Mathematik und Mechanik) and IMACS (International Association for Mathematics and Computers in Simulation). SCAN-98 attracted more than 100 participants from 21 countries all over the world. During the four days from September 22 to 25, nine

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highlighted, plenary lectures and over 70 contributed talks were given. These figures indicate a large participation, which was partly caused by the attraction of the organizing country, Hungary, but also the effective support system have contributed to the

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success. The conference was substantially supported by the Hungarian Research Fund OTKA, GMM, the National Technology Development Board OMFB and by the J6zsef Attila University. Due to this funding, it was possible to subsidize the participation of over

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20 scientists, mainly from Eastern European countries. It is important that the possibly first participation of 6 young researchers was made possible due to the obtained support. The number of East-European participants was relatively high.

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These results are especially valuable, since in contrast to the usual 2 years period, the present meeting was organized just one year after the last SCAN-xx conference.

The solution of eigenvalue

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problems is an integral part of many scientific computations. For example, the numerical solution of problems in structural dynamics, electrical networks, macro-economics, quantum chemistry, and control theory often requires solving eigenvalue

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problems. The coefficient matrix of the eigenvalue problem may be small to medium sized and dense, or large and sparse (containing many zeroelements). In the past tremendous advances have been achieved in the solution methods for symmetric

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eigenvalue problems. The state of the art for nonsymmetric problems is not so advanced; nonsymmetric eigenvalue problems can be hopelessly difficult to solve in some situations due, for example, to poor conditioning. Good

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numerical algorithms for nonsymmetric eigenvalue problems also tend to be far more complex than their symmetric counterparts. This book deals with methods for solving a special nonsymmetric eigenvalue problem; the symplectic eigenvalue

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problem. The symplectic eigenvalue problem is helpful, e.g., in analyzing a number of different questions that arise in linear control theory for discrete-time systems. Certain quadratic eigenvalue problems arising, e.g., in finite element discretization in

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structural analysis, in acoustic simulation of poro-elastic materials, or in the elastic deformation of anisotropic materials can also lead to symplectic eigenvalue problems. The problem appears in other applications as well.

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This book constitutes the refereed proceedings of the Second International Conference on Mathematical Knowledge Management, MKM 2003, held in Betinoro, Italy, in February 2003. The 16 revised full papers

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presented together with an invited paper were carefully reviewed and selected for presentation. Among the topics addressed are digitization, representation, formalization, proof assistants, distributed libraries of mathematics, NAG

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