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KWIC Index for Numerical Algebra Matrix Computations Numerical Methods for Structured Matrices and Applications Computational Methods in Physics Solving Differential Equations by Multistep Initial and Boundary Value Methods Quasi-Interpolation Recent Research on Pure and Applied Algebra Numerical Methods in Matrix Computations Digital Signal Processing Algorithms Symbolic and Algebraic Computation Randomness and Completeness in Computational Complexity Parallelism in Matrix Computations Digital Spectral Analysis Matrix Computations Computational Science and Its Applications – ICCSA 2021 Fast Algorithms for Structured Matrices Krylov Methods for Nonsymmetric Linear Systems SIAM Journal on Matrix Analysis and Applications Applied Modeling Techniques and Data Analysis 2 Nonlinear Analysis Numerical Methods for Least Squares Problems Handbook of Linear Algebra Communications, Computation, Control, and Signal Processing Fractional Calculus Computational Science and Its Applications - ICCSA 2014 Defect Correction Methods Computational Methods for Physicists Reaction Rate Constant Computations Theory Of Difference Equations Numerical Methods And Applications Mathematical Methods in Interdisciplinary Sciences Applied Mechanics Reviews Asymptotic and Computational Analysis Report Advances in Algorithms, Languages, and Complexity A Journey through the History of Numerical Linear Algebra Combinatorial Scientific Computing Numerical Methods in Scientific Computing Identification of Continuous-time Models from Sampled Data Numerical Methods in Physics with Python Computer Algorithms for Solving Linear Algebraic Equations

KWIC Index for Numerical Algebra 1972

this revised edition provides the mathematical background and algorithmic skills required for the production of numerical software it includes rewritten and clarified proofs and derivations as well as new topics such as arnoldi iteration and domain decomposition methods

Matrix Computations *2013-02-15*

this cross disciplinary volume brings together theoretical mathematicians engineers and numerical analysts and publishes surveys and research articles related to topics such as fast algorithms in which the late georg heinig made outstanding achievements

Numerical Methods for Structured Matrices and Applications *2011-02-09*

this book is intended to help advanced undergraduate graduate and postdoctoral students in their daily work by offering them a compendium of numerical methods the choice of methods pays significant attention to error estimates stability and convergence issues as well as optimization of program execution speeds numerous examples are given throughout the chapters followed by comprehensive end of chapter problems with a more pronounced physics background while less stress is given to the explanation of individual algorithms the readers are encouraged to develop a certain amount of skepticism and scrutiny instead of blindly following readily available commercial tools the second edition has been enriched by a chapter on inverse problems dealing with the solution of integral equations inverse sturm liouville problems as well as retrospective and recovery problems for partial differential equations the revised text now includes an introduction to sparse matrix methods the solution of matrix equations and pseudospectra of matrices it discusses the sparse fourier non uniform fourier and discrete wavelet transformations the basics of non linear regression and the kolmogorov smirnov test it demonstrates the key concepts in solving stiff differential equations and the asymptotics of sturm liouville eigenvalues and eigenfunctions among other updates it also presents the techniques of state space reconstruction methods to calculate the matrix exponential generate random permutations and compute stable derivatives

Computational Methods in Physics *2018-06-21*

the numerical approximation of solutions of differential equations has been and continues to be one of the principal concerns of numerical analysis and is an active area of research the new generation of parallel computers have provoked a reconsideration of numerical methods this book aims to generalize classical multistep methods for both initial and boundary value problems to present a self contained theory which embraces and generalizes the classical dahlquist theory to treat nonclassical problems such as hamiltonian problems and the mesh selection and to select appropriate methods for a general purpose software capable of solving a wide range of problems efficiently even on parallel computers

Solving Differential Equations by Multistep Initial and Boundary Value Methods *1998-05-22*

delve into an in depth description and analysis of quasi interpolation starting from various areas of approximation theory

Quasi-Interpolation 2022-03-03

this volume gathers results in pure and applied algebra from researchers around the globe the selection of these papers was carried out under the auspices of a special editorial board

Recent Research on Pure and Applied Algebra *2003*

matrix algorithms are at the core of scientific computing and are indispensable tools in most applications in engineering this book offers a comprehensive and up to date treatment of modern methods in matrix computation it uses a unified approach to direct and iterative methods for linear systems least squares and eigenvalue problems a thorough analysis of the stability accuracy and complexity of the treated methods is given numerical methods in matrix computations is suitable for use in courses on scientific computing and applied technical areas at advanced undergraduate and graduate level a large bibliography is provided which includes both historical and review papers as well as recent research papers this makes the book useful also as a reference and guide to further study and research work

Numerical Methods in Matrix Computations *2014-10-07*

digital signal processing algorithms describes computational number theory and its applications to deriving fast algorithms for digital signal processing it demonstrates the importance of computational number theory in the design of digital signal processing algorithms and clearly describes the nature and structure of the algorithms themselves the book has two primary focuses first it establishes the properties of discrete time sequence indices and their corresponding fast algorithms and second it investigates the properties of the discrete time sequences and the corresponding fast algorithms for processing these sequences digital signal processing algorithms examines three of the most common computational tasks that occur in digital signal processing namely cyclic convolution acyclic convolution and discrete fourier transformation the application of number theory to deriving fast and efficient algorithms for these three and related computationally intensive tasks is clearly discussed and illustrated with examples its comprehensive coverage of digital signal processing computer arithmetic and coding theory makes digital signal processing algorithms an excellent reference for practicing engineers the authors intent to demystify the abstract nature of number theory and the related algebra is evident throughout the text providing clear and precise coverage of the quickly evolving field of digital signal processing

Digital Signal Processing Algorithms *2017-11-22*

the issac 88 is the thirteenth conference in a sequence of international events started in 1966 thanks to the then established acm special interest group on symbolic and algebraic manipulation sigsam for the first time the two annual conferences international symposium on symbolic and algebraic computation issac and international conference on applied algebra algebraic algorithms and error correcting codes aaecc have taken place as a joint conference in rome july 4 8 1988 twelve invited papers on subjects of common interest for the two conferences are included in the proceedings and divided between this volume and the preceding volume of lecture notes in computer science which is devoted to aaecc 6 this book contains contributions on the following topics symbolic algebraic and analytical algorithms automatic theorem proving automatic programming computational geometry problem representation and solution languages and systems for symbolic computation applications to sciences engineering and education

Symbolic and Algebraic Computation 1989-08-23

this book contains a revised version of the dissertation the author wrote at the department of computer science of the university of chicago the thesis was submitted to the faculty of physical sciences in conformity with the requirements for the phd degree in june 1999 it was honored with the 1999 acm doctoral dissertation award in may 2000 summary computational complexity is the study of the inherent di culty of compu tional problems and the power of the tools we may use to solve them it aims to describe how many resources we need to compute the solution as a function of the problem size typical resources include time on sequential and parallel architectures and memory space as we want to abstract away from details of input representation and speci cs of the computer model we end up with classes of problems that we can solve within certain robust resource bounds such as polynomial time parallel logarithmic time and logarithmic space research in complexity theory boils down to determining the relationships between these classes inclusions and separations in this dissertation we focus on the role of randomness and look at various properties of hard problems in order to obtain separations we also investigate the power of nondeterminism and alternation as well as space versus time issues randomness provides a resource that seems to help in various situations

Randomness and Completeness in Computational Complexity *2003-06-29*

this book is primarily intended as a research monograph that could also be used in graduate courses for the design of parallel algorithms in matrix computations it assumes general but not extensive knowledge of numerical linear algebra parallel architectures and parallel programming paradigms the book consists of four parts i basics ii dense and special matrix computations iii sparse matrix computations and iv matrix functions and characteristics part i deals with parallel programming paradigms and fundamental kernels including reordering schemes for sparse matrices part ii is devoted to dense matrix computations such as parallel algorithms for solving linear systems linear least squares the symmetric algebraic eigenvalue problem and the singular value decomposition it also deals with the development of parallel algorithms for special linear systems such as banded vandermonde toeplitz and block toeplitz systems part iii addresses sparse matrix computations a the development of parallel iterative linear system solvers with emphasis on scalable preconditioners b parallel schemes for obtaining a few of the extreme eigenpairs or those contained in a given interval in the spectrum of a standard or generalized symmetric eigenvalue problem and c parallel methods for computing a few of the extreme singular triplets part iv focuses on the development of parallel algorithms for matrix functions and special characteristics such as the matrix pseudospectrum and the determinant the book also reviews the theoretical and practical background necessary when designing these algorithms and includes an extensive bibliography that will be useful to researchers and students alike the book brings together many existing algorithms for the fundamental matrix computations that have a proven track record of efficient implementation in terms of data locality and data transfer on state of the art systems as well as several algorithms that are presented for the first time focusing on the opportunities for parallelism and algorithm robustness

Parallelism in Matrix Computations 2015-07-25

digital spectral analysis offers a broad perspective of spectral estimation techniques and their implementation coverage includes spectral estimation of discrete time or discrete space sequences derived by sampling continuous time or continuous space signals the treatment emphasizes the behavior of each spectral estimator for short data records and provides over 40 techniques described

and available as implemented matlab functions in addition to summarizing classical spectral estimation this text provides theoretical background and review material in linear systems fourier transforms matrix algebra random processes and statistics topics include prony s method parametric methods the minimum variance method eigenanalysis based estimators multichannel methods and two dimensional methods suitable for advanced undergraduates and graduate students of electrical engineering and for scientific use in the signal processing application community outside of universities the treatment s prerequisites include some knowledge of discrete time linear system and transform theory introductory probability and statistics and linear algebra 1987 edition

Digital Spectral Analysis *2019-03-20*

revised and updated the third edition of golub and van loan s classic text in computer science provides essential information about the mathematical background and algorithmic skills required for the production of numerical software this new edition includes thoroughly revised chapters on matrix multiplication problems and parallel matrix computations expanded treatment of cs decomposition an updated overview of floating point arithmetic a more accurate rendition of the modified gram schmidt process and new material devoted to gmres qmr and other methods designed to handle the sparse unsymmetric linear system problem

Matrix Computations *1996-10-15*

the ten volume set lncs 12949 12958 constitutes the proceedings of the 21st international conference on computational science and its applications iccsa 2021 which was held in cagliari italy during september 13 16 2021 the event was organized in a hybrid mode due to the covid 19 pandemic the 466 full and 18 short papers presented in these proceedings were carefully reviewed and selected from 1588 submissions the books cover such topics as multicore architectures mobile and wireless security sensor networks open source software collaborative and social computing systems and tools cryptography human computer interaction software design engineering and others part i of the set follows two general tracks computational methods algorithms and scientific applications high performance computing and networks

Computational Science and Its Applications – ICCSA 2021 *2021-09-09*

one of the best known fast computational algorithms is the fast fourier transform method its efficiency is based mainly on the special structure of the discrete fourier transform matrix recently many other algorithms of this type were discovered and the theory of structured matrices emerged this volume contains 22 survey and research papers devoted to a variety of theoretical and practical aspects of the design of fast algorithms for structured matrices and related issues included are several papers containing various affirmative and negative results in this direction the theory of rational interpolation is one of the excellent sources providing intuition and methods to design fast algorithms the volume contains several computational and theoretical papers on the topic there are several papers on new applications of structured matrices e g to the design of fast decoding algorithms computing state space realizations relations to lie algebras unconstrained optimization solving matrix equations etc the book is suitable for mathematicians engineers and numerical analysts who design study and use fast computational algorithms based on the theory of structured matrices

Fast Algorithms for Structured Matrices *2003*

this book aims to give an encyclopedic overview of the state of the art of krylov subspace iterative methods for solving nonsymmetric systems of algebraic linear equations and to study their mathematical properties solving systems of algebraic linear equations is among the most frequent problems in scientific computing it is used in many disciplines such as physics engineering chemistry biology and several others krylov methods have progressively emerged as the iterative methods with the highest efficiency while being very robust for solving large linear systems they may be expected to remain so independent of progress in modern computer related fields such as parallel and high performance computing the mathematical properties of the methods are described and analyzed along with their behavior in finite precision arithmetic a number of numerical examples demonstrate the properties and the behavior of the described methods also considered are the methods implementations and coding as matlab like functions methods which became popular recently are considered in the general framework of q or quasi orthogonal q mr quasi minimum residual methods this book can be useful for both practitioners and for readers who are more interested in theory together with a review of the state of the art it presents a number of recent theoretical results of the authors some of them unpublished as well as a few original algorithms some of the derived formulas might be useful for the design of possible new methods or for future analysis for the more applied user the book gives an up to date overview of the majority of the available krylov methods for nonsymmetric linear systems including well known convergence properties and as we said above template codes that can serve as the base for more individualized and elaborate implementations

Krylov Methods for Nonsymmetric Linear Systems 2020-10-02

big data artificial intelligence and data analysis set coordinated by jacques janssen data analysis is a scientific field that continues to grow enormously most notably over the last few decades following rapid growth within the tech industry as well as the wide applicability of computational techniques alongside new advances in analytic tools modeling enables data analysts to identify relationships make predictions and to understand interpret and visualize the extracted information more strategically this book includes the most recent advances on this topic meeting increasing demand from wide circles of the scientific community applied modeling techniques and data analysis 2 is a collective work by a number of leading scientists analysts engineers mathematicians and statisticians working on the front end of data analysis and modeling applications the chapters cover a cross section of current concerns and research interests in the above scientific areas the collected material is divided into appropriate sections to provide the reader with both theoretical and applied information on data analysis methods models and techniques along with appropriate applications

SIAM Journal on Matrix Analysis and Applications *2007*

the volume will consist of about 40 articles written by some very influential mathematicians of our time and will expose the latest achievements in the broad area of nonlinear analysis and its various interdisciplinary applications

Applied Modeling Techniques and Data Analysis 2 *2021-05-11*

the method of least squares was discovered by gauss in 1795 it has since become the principal tool to reduce the influence of errors when fitting models to given observations today applications of least squares arise in a great number of scientific areas such as statistics geodetics signal processing and

control in the last 20 years there has been a great increase in the capacity for automatic data capturing and computing least squares problems of large size are now routinely solved tremendous progress has been made in numerical methods for least squares problems in particular for generalized and modified least squares problems and direct and iterative methods for sparse problems until now there has not been a monograph that covers the full spectrum of relevant problems and methods in least squares this volume gives an in depth treatment of topics such as methods for sparse least squares problems iterative methods modified least squares weighted problems and constrained and regularized problems the more than 800 references provide a comprehensive survey of the available literature on the subject

Nonlinear Analysis *2012-06-02*

with a substantial amount of new material the handbook of linear algebra second edition provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use format it guides you from the very elementary aspects of the subject to the frontiers of current research along with revisions and

Numerical Methods for Least Squares Problems *1996-01-01*

a paulraj v roychowdhury and c schaper dept of electrical engineering stanford university dept of electrical engineering ucla innumerable conferences are held around the world on the subjects of commu nications computation control and signal processing and on their numerous subdisciplines therefore one might not envision a coherent conference encom passing all these areas however such an event did take place june 22 26 1995 at an international symposium held at stanford university to celebrate professor thomas kailath s sixtieth birthday and to honor the notable con tributions made by him and his students and associates the depth of these contributions was evident from the participation of so many leading figures in each of these fields over the five days of the meeting there were about 200 at tendees from eighteen countries more than twenty government and industrial organizations and various engineering mathematics and statistics faculties at nearly 50 different academic institutions they came not only to celebrate but also to learn and to ponder the threads and the connections that professor kailath has discovered and woven among so many apparently disparate areas the organizers received many comments about the richness of the occasion a distinguished academic wrote of the conference being the single most rewarding professional event of my life the program is summarized in table 1 1 a letter of reflections by dr c rohrs appears a little later

Handbook of Linear Algebra *2013-11-26*

this title will give readers the possibility of finding very important mathematical tools for working with fractional models and solving fractional differential equations such as a generalization of stirling numbers in the framework of fractional calculus and a set of efficient numerical methods

Communications, Computation, Control, and Signal Processing *2012-12-06*

the six volume set lncs 8579 8584 constitutes the refereed proceedings of the 14th international conference on computational science and its applications iccsa 2014 held in guimarães portugal in june july 2014 the 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167 initial submissions the 289 papers presented in the workshops cover

various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security

Fractional Calculus *2012*

ten years ago the term defect correction was introduced to characterize a class of methods for the improvement of an approximate solution of an operator equation this class includes many well known techniques e g newton s method but also some novel approaches which have turned out to be quite efficient meanwhile a large number of papers and reports scattered over many journals and institutions have appeared in this area therefore a working conference on error asymptotics and defect corrections was organized by k bohmer v pereyra and h j stetter at the mathematisches forschungsinstitut oberwolfach in july 1983 a meeting which aimed at bringing together a good number of the scientists who are active in this field altogether 26 persons attended whose interests covered a wide spectrum from theoretical analyses to applications where defect corrections may be utilized a list of the participants may be found in the appendix most of the colleagues who presented formal lectures at the meeting agreed to publish their reports in this volume it would be presumptuous to call this book a state of the art report in defect corrections it is rather a collection of snapshots of activities which have been going on in a number of segments on the frontiers of this area no systematic coverage has been attempted some articles focus strongly on the basic concepts of defect correction but in the majority of the contributions the defect correction ideas appear rather as instruments for the attainment of some specified goal

Computational Science and Its Applications - ICCSA 2014 *2014-07-03*

this book helps advanced undergraduate graduate and postdoctoral students in their daily work by offering them a compendium of numerical methods the choice of methods pays significant attention to error estimates stability and convergence issues as well as to the ways to optimize program execution speeds many examples are given throughout the chapters and each chapter is followed by at least a handful of more comprehensive problems which may be dealt with for example on a weekly basis in a one or two semester course in these end of chapter problems the physics background is pronounced and the main text preceding them is intended as an introduction or as a later reference less stress is given to the explanation of individual algorithms it is tried to induce in the reader an own independent thinking and a certain amount of scepticism and scrutiny instead of blindly following readily available commercial tools

Defect Correction Methods *2012-12-06*

the reaction rate constant plays an essential role a wide range of processes in biology chemistry and physics calculating the reaction rate constant provides considerable understanding to a reaction and this book presents the latest thinking in modern rate computational theory the editors have more than 30 years experience in researching the theoretical computation of chemical reaction rate constants by global dynamics and transition state theories and have brought together a global pool of expertise discussing these in a variety of contexts and across all phases this thorough treatment of the subject provides an essential handbook to students and researchers entering the field and a comprehensive reference to established practitioners across the sciences providing better tools to determining reaction rate constants

Computational Methods for Physicists *2012-12-17*

provides a clear and comprehensive overview of the fundamental theories numerical methods and iterative processes encountered in difference calculus explores classical problems such as orthological polynomials the euclidean algorithm roots of polynomials and well conditioning

Reaction Rate Constant Computations *2014*

brings mathematics to bear on your real world scientific problems mathematical methods in interdisciplinary sciences provides a practical and usable framework for bringing a mathematical approach to modelling real life scientific and technological problems the collection of chapters dr snehashish chakraverty has provided describe in detail how to bring mathematics statistics and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study graduate students postgraduate students researchers and professors will all benefit significantly from the author s clear approach to applied mathematics the book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems requiring creative solutions subjects include structural static and vibration problems heat conduction and diffusion problems fluid dynamics problems the book also covers topics as diverse as soft computing and machine intelligence it concludes with examinations of various fields of application like infectious diseases autonomous car and monotone inclusion problems

Theory Of Difference Equations Numerical Methods And Applications *2002-06-12*

papers presented at the international symposium on asymptotic and computational analysis held june 1989 winnipeg man sponsored by the dept of applied mathematics university of manitoba and the canadian applied mathematics society

Mathematical Methods in Interdisciplinary Sciences *2020-06-02*

this book contains a collection of survey papers in the areas of algorithms lan guages and complexity the three areas in which professor ronald v book has made significant contributions as a fonner student and a co author who have been influenced by him directly we would like to dedicate this book to professor ronald v book to honor and celebrate his sixtieth birthday professor book initiated his brilliant academic career in 1958 graduating from grinnell college with a bachelor of arts degree he obtained a master of arts in teaching degree in 1960 and a master of arts degree in 1964 both from wesleyan university and a doctor of philosophy degree from harvard university in 1969 under the guidance of professor sheila a greibach professor book s research in discrete mathematics and theoretical com puter science is reflected in more than 150 scientific publications these works have made a strong impact on the development of several areas of theoretical computer science a more detailed summary of his scientific research appears in this volume separately

Applied Mechanics Reviews *1977*

this expansive volume describes the history of numerical methods proposed for solving linear algebra problems from antiquity to the present day the authors focus on methods for linear systems of equations and eigenvalue problems and describe the interplay between numerical methods and the computing tools available at the time the second part of the book consists of 78 biographies of

important contributors to the field a journey through the history of numerical linear algebra will be of special interest to applied mathematicians especially researchers in numerical linear algebra people involved in scientific computing and historians of mathematics

Asymptotic and Computational Analysis 2020-12-18

combinatorial scientific computing explores the latest research on creating algorithms and software tools to solve key combinatorial problems on large scale high performance computing architectures it includes contributions from international researchers who are pioneers in designing software and applications for high performance computing systems

Report *1993*

this new book from the authors of the classic book numerical methods addresses the increasingly important role of numerical methods in science and engineering more cohesive and comprehensive than any other modern textbook in the field it combines traditional and well developed topics with other material that is rarely found in numerical analysis texts such as interval arithmetic elementary functions operator series convergence acceleration and continued fractions although this volume is self contained more comprehensive treatments of matrix computations will be given in a forthcoming volume a supplementary website contains three appendices an introduction to matrix computations a description of mulprec a matlab multiple precision package and a guide to literature algorithms and software in numerical analysis review questions problems and computer exercises are also included for use in an introductory graduate course in numerical analysis and for researchers who use numerical methods in science and engineering

Advances in Algorithms, Languages, and Complexity *2013-12-01*

this is the first book dedicated to direct continuous time model identification for 15 years it cuts down on time spent hunting through journals by providing an overview of much recent research in an increasingly busy field the contsid toolbox discussed in the final chapter gives an overview of developments and practical examples in which matlab can be used for direct time domain identification of continuous time systems this is a valuable reference for a broad audience

A Journey through the History of Numerical Linear Algebra *2022-12-06*

bringing together idiomatic python programming foundational numerical methods and physics applications this is an ideal standalone textbook for courses on computational physics all the frequently used numerical methods in physics are explained including foundational techniques and hidden gems on topics such as linear algebra differential equations root finding interpolation and integration the second edition of this introductory book features several new codes and 140 new problems many on physics applications as well as new sections on the singular value decomposition derivative free optimization bayesian linear regression neural networks and partial differential equations the last section in each chapter is an in depth project tackling physics problems that cannot be solved without the use of a computer written primarily for students studying computational physics this textbook brings the non specialist quickly up to speed with python before looking in detail at the numerical methods often used in the subject

Combinatorial Scientific Computing *2012-01-25*

the nato advanced study institute on computer algorithms for solving linear algebraic equations the state of the art was held september 9 21 1990 at ii ciocco barga italy it was attended by 68 students among them many well known specialists in related fields from the following countries belgium brazil canada czechoslovakia denmark france germany greece holland hungary italy portugal spain turkey uk usa ussr yugoslavia solving linear equations is a fundamental task in most of computational mathematics linear systems which are now encountered in practice may be of very large dimension and their solution can still be a challenge in terms of the requirements of accuracy or reasonable computational time with the advent of supercomputers with vector and parallel features algorithms which were previously formulated in a framework of sequential operations often need a completely new formulation and algorithms that were not recommended in a sequential framework may become the best choice the aim of the asi was to present the state of the art in this field while not all important aspects could be covered for instance there is no presentation of methods using interval arithmetic or symbolic computation we believe that most important topics were considered many of them by leading specialists who have contributed substantially to the developments in these fields

Numerical Methods in Scientific Computing *2008-01-01*

Identification of Continuous-time Models from Sampled Data *2008-03-13*

Numerical Methods in Physics with Python *2023-05-31*

Computer Algorithms for Solving Linear Algebraic Equations *2012-12-06*

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