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Numerical Solution of the Collisionless Plasma Sheath Equation in Cylindrical Geometry Sep 02 2022

Deposition and Solution of Manganese Oxides Jun 30 2022

Journal of General Chemistry of the U.S.S.R. in English Translation Dec 01 2019

Memoirs and Proceedings of the Manchester Literary & Philosophical Society Mar 16 2021

Time-parallel Methods for Accelerating the Solution of Structural Dynamics Problems Apr 28 2022 The classical approach for solving evolution Partial Differential Equations (PDEs) using a parallel computer consists in first partitioning the spatial domain and assigning each subdomain to a processor to achieve space-parallelism, then advancing the solution sequentially. However, enabling parallelism along the time dimension, despite its intrinsic difficulty, can be of paramount importance to fast computations when space-parallelism is unfeasible, cannot fully exploit a massively parallel machine or when near-real-time prediction is desired. The aforementioned objective can be achieved by applying classical domain decomposition principles to the time axis. The latter is first partitioned into time-slices to be processed independently. Starting with approximate seed information that provides a set of initial conditions, the response is then advanced in parallel in each time-slice using a standard time-stepping integrator. This decomposed

solution exhibits discontinuities or jumps at the time-slice boundaries if the initial guess is not accurate. Applying a Newton-like approach to the time-dependent system, a correction function is then computed to improve the accuracy of the seed values and the process is repeated until convergence is reached. Methods based on the above concept have been successfully applied to various problems but none was found to be competitive for even for the simplest of second-order hyperbolic PDEs, a class of equations that covers the field of structural dynamics among others. To overcome this difficulty, a key idea is to improve the sequential propagator used for correcting the seed values, observing that the original evolution problem and the derived corrective one are closely related. The present work first demonstrates how this insight can be brought to fruition in the context of linear oscillators, with numerical examples featuring structural models ranging from academic to more challenging large-scale ones. An extension of this method to nonlinear equations is then developed and its concrete application to geometrically nonlinear transient dynamics is presented. Finally, it is shown how the time-reversibility property that characterizes some of the above problems can be exploited to develop a new framework that provides an increased speed-up factor.

The Canadian Patent Office Record Nov 11 2020

Numerical Solution of Partial Differential Equations—III, SYNSPADE 1975 May 30 2022 Numerical Solution of Partial Differential Equations—III: Synspade 1975 provides information pertinent to those difficult problems in partial differential equations exhibiting some type of singular behavior. This book covers a variety of topics, including the mathematical models and their relation to experiment as well as the behavior of solutions of the partial differential equations involved. Organized into 16 chapters, this book begins with an overview of elastodynamic results for stress intensity factors of a bifurcating crack. This text then discusses the effects of nonlinearities, such as bifurcation, which occur in problems of nonlinear mechanics. Other chapters consider the equations of changing type and those with rapidly oscillating coefficients. This book discusses as well the effective computational methods for numerical solutions. The final chapter deals with the principal results on G-convergence, such as the convergence of the Green's operators for Dirichlet's and other boundary problems. This book is a valuable resource for engineers and mathematicians.

Commercial Organic Analysis Jun 18 2021

British Pharmacopoeia 1993 Mar 04 2020 The British Pharmacopoeia , cited in Sheehy , has provided authoritative standards for the quality of many substances, preparations, and articles used in medicine and pharmacy for some 130 years. This new edition consolidates and extends the 1988 edition with its 1989, 1990, 1991, and 1992 Addenda , and for the convenience of users also incorporate.

Solution of Axisymmetric and Two-dimensional Inviscid Flow Over Blunt Bodies by the Method of Lines Aug 01 2022 Comparisons with experimental data and the results of other computational methods demonstrated that very accurate solutions can be obtained by using relatively few lines with the method of lines approach. This method is semidiscrete and has relatively low core storage requirements as compared with fully discrete methods since very little data were stored across the shock layer. This feature is very attractive for three dimensional problems because it enables computer storage requirements to be reduced by approximately an order of magnitude. In the present study it was found that nine lines was a practical upper limit for two dimensional and axisymmetric problems. This condition limits application of the method to smooth body geometries where relatively few lines would be adequate to describe changes in the flow variables around the body. Extension of the method to three dimensions was conceptually straightforward; however, three dimensional applications would also be limited to smooth

body geometries although not necessarily to total of nine lines.

Analele Universității București Feb 01 2020

Memoirs and Proceedings of the Manchester Literary & Philosophical Society Apr 16 2021

Journal of Analytical Chemistry of the USSR. Aug 28 2019

AFIPS Conference Proceedings Jun 26 2019

Differential and Difference Equations Jun 06 2020

Iterative Methods for the Solution of Equations Aug 21 2021 Presents a general theory of iteration algorithms for the numerical solution of equations and systems of equations. This book investigates the relationship between the quantity and the quality of information that is used by an algorithm.

Automated Solution of Differential Equations by the Finite Element Method Jan 26 2022 This book is a tutorial written by researchers and developers behind the FEniCS Project and explores an advanced, expressive approach to the development of mathematical software. The presentation spans mathematical background, software design and the use of FEniCS in applications. Theoretical aspects are complemented with computer code which is available as free/open source software. The book begins with a special introductory tutorial for beginners. Following are chapters in Part I addressing fundamental aspects of the approach to automating the creation of finite element solvers. Chapters in Part II address the design and implementation of the FEnicS software. Chapters in Part III present the application of FEniCS to a wide range of applications, including fluid flow, solid mechanics, electromagnetics and geophysics.

Gazzetta Chimica Italiana Nov 23 2021

The Effect of Aggregation State on the Degradation Kinetics in Solution of an Oxidizable Sulfide Dicarboxylic Acid Drug Oct 03 2022

Second Course in Algebra Sep 21 2021

Numerical Solution of Antennas in Layered Media Nov 04 2022 This monograph presents a variety of methods for the numerical solution of practical problems (especially transient responses in layered media) which occur in microwave antenna installations. Provides a survey of the present state of research, covering the modern applications of methods such as Green's function and the Sommerfield integrals, to practical problems involving dipoles, focusing antennas, and model calculations.

Acta Chimica Apr 04 2020 Nr. 64. Śladkowska, J. Polynômes quasi-univalents et univalents. 1960.

Inorganic Materials Jul 08 2020

Solutions of Nonlinear Schrödinger Systems Dec 13 2020 The existence and qualitative properties of nontrivial solutions for some important nonlinear Schrödinger systems have been studied in this thesis. For a well-known system arising from nonlinear optics and Bose-Einstein condensates (BEC), in the subcritical case, qualitative properties of ground state solutions, including an optimal parameter range for the existence, the uniqueness and asymptotic behaviors, have been investigated and the results could firstly partially answer open questions raised by Ambrosetti, Colorado and Sirakov. In the critical case, a systematical research on ground state solutions, including the existence, the nonexistence, the uniqueness and the phase separation phenomena of the limit profile has been presented, which seems to be the first contribution for BEC in the critical case. Furthermore, some quite different phenomena were also studied in a more general critical system. For the classical Brezis-Nirenberg critical exponent problem, the sharp energy estimate of least energy solutions in a ball has been investigated in this study. Finally, for Ambrosetti type linearly coupled Schrödinger equations with critical exponent, an optimal result on the existence and nonexistence of ground state solutions

for different coupling constants was also obtained in this thesis. These results have many applications in Physics and PDEs.

College Algebra Sep 09 2020

Une Solution [of the Italian Question]. Mar 28 2022

Computer Solution of Large Linear Systems Jan 14 2021 This book deals with numerical methods for solving large sparse linear systems of equations, particularly those arising from the discretization of partial differential equations. It covers both direct and iterative methods. Direct methods which are considered are variants of Gaussian elimination and fast solvers for separable partial differential equations in rectangular domains. The book reviews the classical iterative methods like Jacobi, Gauss-Seidel and alternating directions algorithms. A particular emphasis is put on the conjugate gradient as well as conjugate gradient -like methods for non symmetric problems. Most efficient preconditioners used to speed up convergence are studied. A chapter is devoted to the multigrid method and the book ends with domain decomposition algorithms that are well suited for solving linear systems on parallel computers.

Clinical Diagnosis by Laboratory Methods Feb 12 2021 A working manual of clinical pathology.

Cataract Surgery Sep 29 2019 Authored by a broad spectrum of highly respected contributors, this practical and easy-to-use reference includes sections on preoperative considerations, techniques and indications for ECCE and phacoemulsification, future trends for cataract extraction, intraocular lenses, operative complications and the management of postoperative complications, much more.

Iterative Solution of Large Linear Systems Jul 20 2021 This self-contained treatment offers a systematic development of the theory of iterative methods. Its focal point resides in an analysis of the convergence properties of the successive overrelaxation (SOR) method, as applied to a linear system with a consistently ordered matrix. The text explores the convergence properties of the SOR method and related techniques in terms of the spectral radii of the associated matrices as well as in terms of certain matrix norms. Contents include a review of matrix theory and general properties of iterative methods; SOR method and stationary modified SOR method for consistently ordered matrices; nonstationary methods; generalizations of SOR theory and variants of method; second-degree methods, alternating direction-implicit methods, and a comparison of methods. 1971 edition.

Informe de Una Consulta de Expertos FAO/OMS Roma, 29 de Octubre - 5 de Noviembre 1984 Oct 11 2020

The Physical Universe Jul 28 2019

The Science Reports of the Saitama University Oct 23 2021

The Numerical Solution of Systems of Polynomials Arising in Engineering and Science Feb 24 2022 ' Written by the founders of the new and expanding field of numerical algebraic geometry, this is the first book that uses an algebraic-geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets. The text covers the full theory from methods developed for isolated solutions in the 1980's to the most recent research on positive dimensional sets. Contents:Background:Polynomial SystemsHomotopy ContinuationProjective SpacesGenericity and Probability OnePolynomials of One VariableOther MethodsIsolated Solutions:Coefficient-Parameter HomotopyPolynomial StructuresCase StudiesEndpoint EstimationChecking Results and Other Implementation TipsPositive Dimensional Solutions:Basic Algebraic GeometryBasic Numerical Algebraic GeometryA Cascade Algorithm for Witness SupersetsThe Numerical Irreducible DecompositionThe Intersection of Algebraic SetsAppendices:Algebraic GeometrySoftware

for Polynomial ContinuationHomLab User's Guide Readership: Graduate students and researchers in applied mathematics and mechanical engineering. Keywords:Polynomial Systems;Numerical Methods;Homotopy Methods;Mechanical Engineering;Numerical Algebraic Geometry;Kinematics;RoboticsKey Features:Useful introduction to the field for graduate students and researchers in related areasIncludes exercises suitable for classroom use and self-studyIncludes Matlab software to illustrate the methodIncludes many graphical illustrationsIncludes a detailed summary of useful results from algebraic geometryReviews:"The text is written in a very smooth and intelligent form, yielding a readable book whose contents are accessible to a wide class of readers, even to undergraduate students, provided that they accept that some delicate points of some of the proofs could be omitted. Its readability and fast access to the core of the book makes it recommendable as a pleasant read."Mathematical Reviews "This is an excellent book on numerical solutions of polynomials systems for engineers, scientists and numerical analysts. As pioneers of the field of numerical algebraic geometry, the authors have provided a comprehensive summary of ideas, methods, problems of numerical algebraic geometry and applications to solving polynomial systems. Through the book readers will experience the authors' original ideas, contributions and their techniques in handling practical problems ... Many interesting examples from engineering and science have been used throughout the book. Also the exercises are well designed in line with the content, along with the algorithms, sample programs in Matlab and author's own software 'HOMLAB' for polynomial continuation. This is a remarkable book that I recommend to engineers, scientists, researchers, professionals and students, and particularly numerical analysts who will benefit from the rapid development of numerical algebraic geometry."Zentralblatt MATH '

Polish Journal of Chemistry Jan 02 2020
Australian Journal of Chemistry Aug 09 2020
Wageningen Economic Papers May 06 2020
Comptes rendus de l'Académie bulgare des sciences Oct 30 2019
A Proof of Existence of Particle-like Solutions of Einstein Dirac Equations May 18 2021
European Pharmacopoeia Dec 25 2021