Qualocator

Roman Wölfel

Ordinary Differential Equations and Integral Equations C.T.H. Baker, G. Monegato, G. vanden Berghe, 2001-07-04 /homepage/sac/cam/na2000/index.html7-Volume Set now available at special set price! This volume contains contributions in the area of differential equations and integral equations. Many numerical methods have arisen in response to the need to solve real-life problems in applied mathematics, in particular problems that do not have a closed-form solution. Contributions on both initial-value problems and boundary-value problems in ordinary differential equations appear in this volume. Numerical methods for initial-value problems in ordinary differential equations fall naturally into two classes: those which use one starting value at each step (one-step methods) and those which are based on several values of the solution (multistep methods). John Butcher has supplied an expert's perspective of the development of numerical methods for ordinary differential equations in the 20th century. Rob Corless and Lawrence Shampine talk about established technology, namely software for initial-value problems using Runge-Kutta and Rosenbrock methods, with interpolants to fill in the solution between mesh-points, but the 'slant' is new - based on the question, How should such software integrate into the current generation of Problem Solving Environments? Natalia Borovykh and Marc Spijker study the problem of establishing upper bounds for the norm of the nth power of square matrices. The dynamical system viewpoint has been of great benefit to ODE theory and numerical methods. Related is the study of chaotic behaviour. Willy Govaerts discusses the numerical methods for the computation and continuation of equilibria and bifurcation points of equilibria of dynamical systems. Arieh Iserles and Antonella Zanna survey the construction of Runge-Kutta methods which preserve algebraic invariant functions. Valeria Antohe and Ian Gladwell present numerical experiments on solving a Hamiltonian system of Hénon and Heiles with a symplectic and a nonsymplectic method with a variety of precisions and initial conditions. Stiff differential equations first became recognized as special during the 1950s. In 1963 two seminal publications laid to the foundations for later development: Dahlquist's paper on A-stable multistep methods and Butcher's first paper on implicit Runge-Kutta methods. Ernst Hairer and Gerhard Wanner deliver a survey which retraces the discovery of the order stars as well as the principal achievements obtained by that theory. Guido Vanden Berghe, Hans De Meyer, Marnix Van Daele and Tanja Van Hecke construct exponentially fitted Runge-Kutta methods with s stages. Differential-algebraic equations arise in control, in modelling of mechanical systems and in many other fields. Jeff Cash describes a fairly recent class of formulae for the numerical solution of initial-value problems for stiff and differential-algebraic systems. Shengtai Li and Linda Petzold describe methods and software for sensitivity analysis of solutions of DAE initial-value problems. Again in the area of differential-algebraic systems, Neil Biehn, John Betts, Stephen Campbell and William Huffman present current work on mesh adaptation for DAE two-point boundary-value problems. Contrasting approaches to the question of how good an approximation is as a solution of a given equation involve (i) attempting to estimate the actual error (i.e., the difference between the true and the approximate solutions) and (ii) attempting to estimate the defect - the amount by which the approximation fails to satisfy the given equation and any side-conditions. The paper by Wayne Enright on defect control relates to carefully analyzed techniques that have been proposed both for ordinary differential equations and for delay differential equations in which an attempt is made to control an estimate of the size of the defect. Many phenomena incorporate noise, and the numerical solution of stochastic differential equations has developed as a relatively new item of study in the area. Keven Burrage, Pamela Burrage and Taketomo Mitsui review the way numerical methods for solving stochastic differential equations (SDE's) are constructed. One of the more recent areas to attract scrutiny has been the area of differential equations with after-effect (retarded, delay, or neutral delay differential equations) and in this volume we include a number of papers on evolutionary problems in this area. The paper of Genna Bocharov and Fathalla Rihan conveys the importance in mathematical biology of models using retarded differential equations. The contribution by Christopher Baker is intended to convey much of the background necessary for the application of numerical methods and includes some original results on stability and on the solution of approximating equations. Alfredo Bellen, Nicola Guglielmi and Marino Zennaro contribute to the analysis of stability of numerical solutions of nonlinear neutral differential equations. Koen Engelborghs, Tatyana Luzyanina, Dirk Roose, Neville Ford and Volker Wulf consider the numerics of bifurcation in delay differential equations. Evelyn Buckwar contributes a paper indicating the construction and analysis of a numerical strategy for stochastic delay differential equations (SDDEs). This volume contains contributions on both Volterra and Fredholm-type integral equations. Christopher Baker responded to a late challenge to craft a review of the theory of the basic numerics of Volterra integral and integro-differential equations. Simon Shaw and John Whiteman discuss Galerkin methods for a type of Volterra integral equation that arises in modelling viscoelasticity. A subclass of boundary-value problems for ordinary differential equation comprises eigenvalue problems such as Sturm-Liouville problems (SLP) and Schrödinger equations. Liviu Ixaru describes the advances made over the last three decades in the field of piecewise perturbation methods for the numerical solution of Sturm-Liouville problems in general and systems of Schrödinger equations in particular. Alan Andrew surveys the asymptotic correction method for regular Sturm-Liouville problems. Leon Greenberg and Marco Marletta survey methods for higherorder Sturm-Liouville problems. R. Moore in the 1960s first showed the feasibility of validated solutions of differential equations, that is, of computing guaranteed enclosures of solutions. Boundary integral equations. Numerical solution of integral equations associated with boundary-value problems has experienced continuing interest. Peter Junghanns and Bernd Silbermann present a selection of modern results concerning the numerical analysis of one-dimensional Cauchy singular integral equations, in particular the stability of operator sequences associated with different projection methods. Johannes Elschner and Ivan Graham summarize the most important results achieved in the last years about the numerical solution of one-dimensional integral equations of Mellin type of means of projection methods and, in particular, by collocation methods. A survey of results on quadrature methods for solving boundary integral equations is presented by Andreas Rathsfeld. Wolfgang Hackbusch and Boris Khoromski present a novel approach for a very efficient treatment of integral operators. Ernst Stephan examines multilevel methods for the h-, p- and hp- versions of the boundary element method, including pre-conditioning techniques. George Hsiao, Olaf Steinbach and Wolfgang Wendland analyze various boundary element methods employed in local discretization schemes.

Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan Josef Dick, Frances Y. Kuo, Henryk Woźniakowski, 2018-05-23 This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday. It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics. These papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career. The book also presents state of the art knowledge in many computational fields such as quasi-Monte Carlo and Monte Carlo methods for multivariate integration, multi-level methods, finite element methods, uncertainty quantification, spherical designs and integration on the sphere, approximation and interpolation of multivariate functions, oscillatory integrals, and in general in information-based complexity and tractability, as well as in a range of other topics. The book also tells the life story of the renowned mathematician, family man, colleague and friend, who has been an inspiration to many of us. The reader may especially enjoy the story from the perspective of his family, his wife, his daughter and son, as well as grandchildren, who share their views of lan. The clear message of the book is that lan H. Sloan has been a role model in science and life.

Queen's University, Volume III, 1961-2004 Duncan McDowall,2016-04-01 Founded in 1841 by a royal charter, Queen's University evolved into a national institution steeped in tradition and an abiding sense of public service. Propelled initially by its Presbyterian instincts and an attachment to Gaelic culture, Queen's has prospered and adapted over the years to match Canada's ever-changing dynamics. In this third volume of Queen's University's official history, Duncan McDowall demonstrates that the late twentieth century was a contest between expediency and tradition waged through crisis and careful evolution. Testing Tradition calibrates the durability of Queen's vaunted traditions in the face of shifts in the broader Canadian society. During this time of massive postsecondary expansion, Queen's grew sevenfold from a small, collegial campus of 3,100 students to a sprawling cosmopolitan place of more than 20,000 students from over 120 countries engaged in undergraduate, graduate, and professional programs. Measuring Queen's University's responses to concerns over social diversity, human rights, and gender equity through the eyes of its trustees, administrators, students, faculty, and the Kingston community, this volume pays particular attention to the experiences of women and visible minorities at the university. Copiously illustrated with photographs of important people, events, and aspects of campus life, this volume shows how Queen's, in having its traditions tested, has worked to retain the best of

its past, while accepting the inevitability of change.

Approximation of Additive Convolution-Like Operators Victor Didenko, Bernd Silbermann, 2008-09-19 This book deals with numerical analysis for certain classes of additive operators and related equations, including singular integral operators with conjugation, the Riemann-Hilbert problem, Mellin operators with conjugation, double layer potential equation, and the Muskhelishvili equation. The authors propose a unified approach to the analysis of the approximation methods under consideration based on special real extensions of complex C*-algebras. The list of the methods considered includes spline Galerkin, spline collocation, qualocation, and quadrature methods. The book is self-contained and accessible to graduate students.

Problems and Methods in Mathematical Physics Johannes Elschner, Israel Gohberg, Bernd Silbermann, 2012-12-06 This volume presents the proceedings of the 11th Conference on Problems and Methods in Mathematical Physics (11th TMP), held in Chemnitz, March 25-28, 1999. The conference was dedicated to the memory of Siegfried Prössdorf, who made important contributions to the theory and numerical analysis of operator equations and their applications in mathematical physics and mechanics. The main part of the book comprises original research papers. The topics are ranging from integral and pseudodifferential equations, boundary value problems, operator theory, boundary element and wavelet methods, approximation theory and inverse problems to various concrete problems and applications in physics and engineering, and reflect Prössdorf's broad spectrum of research activities. The volume also contains articles describing the life and mathematical achievements of Siegfried Prössdorf and includes a list of his publications. The book is addressed to a wide audience in the mathematical and engineering sciences.

Advanced Boundary Element Methods Joachim Gwinner, Ernst Peter Stephan, 2018-07-28 This book is devoted to the mathematical analysis of the numerical solution of boundary integral equations treating boundary value, transmission and contact problems arising in elasticity, acoustic and electromagnetic scattering. It serves as the mathematical foundation of the boundary element methods (BEM) both for static and dynamic problems. The book presents a systematic approach to the variational methods for boundary integral equations including the treatment with variational inequalities for contact problems. It also features adaptive BEM, hp-version BEM, coupling of finite and boundary element methods – efficient computational tools that have become extremely popular in applications. Familiarizing readers with tools like Mellin transformation and pseudodifferential operators as well as convex and nonsmooth analysis for variational inequalities, it concisely presents efficient, state-of-the-art boundary element approximations and points to up-to-date research. The authors are well known for their fundamental work on boundary elements and related topics, and this book is a major contribution to the modern theory of the BEM (especially for error controlled adaptive methods and for unilateral contact and dynamic problems) and is a valuable resource for applied mathematicians, engineers, scientists and graduate students.

Numerical Mathematics Singapore 1988 Agarwal, Chwo, Wilson, 2013-11-21

<u>Periodic Integral and Pseudodifferential Equations with Numerical Approximation</u> Jukka Saranen, Gennadi Vainikko, 2013-03-09 An attractive book on the intersection of analysis and numerical analysis, deriving classical boundary integral equations arising from the potential theory and acoustics. This self-contained monograph can be used as a textbook by graduate/postgraduate students. It also contains a lot of carefully chosen exercises.

Industrial Mathematics Mohan C. Joshi, Amiya Kumar Pani, Sanjeev V. Sabnis, 2006 This monograph contains results of recent research interests concerning solution strategies employed for solving real life problems pertaining to modelling and scientific computing, control and optimizations, and financial mathematics.

Advances in Multiphysics Simulation and Experimental Testing of Mems Attilio Frangi, Carlo Cercignani, Subrata Mukherjee, Narayan Aluru, 2008-07-29 This volume takes a much needed multiphysical approach to the numerical and experimental evaluation of the mechanical properties of MEMS and NEMS. The contributed chapters present many of the most recent developments in fields ranging from microfluids and damping to structural analysis, topology optimization and nanoscale simulations. The book responds to a growing need emerging in academia and industry to merge different areas of expertise towards a unified design and analysis of MEMS and NEMS. Contents: Challenges in Modeling Liquid and Gas Flows in Micro/Nano Devices (M Gad-el-Hak)/Using the Kinetic Equations for MEMS and NEMS (C Carcignani et al.) Applying the Direct Simulation of Micro (DSMC) Method to Gas-Filled MEMS Devices (M A Gallis)New Approaches for the Simulation of Microfluidics in MEMS (T Y Ng et al.) Evaluating Gas Damping in MEMS Using Fast Integral Equation Solvers (A Frangi et al.) Experimental Techniques for Damping Characterization of Micro and Nanostructures (A Bosseboeuf & H Mathias) Nonlinear Dynamics of Electrostatically Actuated MEMS (S K De & N Aluru) Coupled Deformation Analysis of Thin MEMS Plates (S Mukherjee & S Telukunta) Pull-In Instability in Electrostatically Actuated MEMS Due to Coulomb and Casimir Forces (R C Batra et al.) Numerical Simulation of BioMEMS with Dielectrophoresis (G R Liu & C X Song) Continuous Modeling of Multi-Physics Problems of Microsystems for Topology Optimization (G K Ananthasuresh) Mechanical Characterization of Polysilicon at the Micro-Scale Through On-Chip Tests (A Companical System (H D Espinosa et al.) Readership: Postgraduate students, researchers and scientists in academia and the MEMS/INEMS industry. Keywords: MEMS; Microfluidics; Electrostatics; Pull-In Instability; BIOMEMS; Optimization; Coupled AnalysesKey Features: Reinforces links between the most advanced applications from academia and industry

Spectral Theory of Approximation Methods for Convolution Equations Roland Hagen, Steffen Roch, Bernd Silbermann, 2012-12-06 The aim of the present book is to propose a new algebraic approach to the study of norm stability of operator sequences which arise, for example, via discretization of singular integral equations on composed curves. A wide variety of discretization methods, including quadrature rules and spline or wavelet approximations, is covered and studied from a unique point of view. The approach takes advantage of the fruitful interplay between approximation theory, concrete operator theory, and local Banach algebra techniques. The book is addressed to a wide audience, in particular to mathematicians working in operator theory and Banach algebras as well as to applied mathematicians and engineers interested in theoretical foundations of various methods in general use, particularly splines and wavelets. The exposition contains numerous examples and exercises. Students will find a large number of suggestions for their own investigations.

2011, The Journal of Integral Equations and Applications

Report ,1997

Spline Qualocation Methods for Variable Coefficient Elliptic Equations on Curves Ian H. Sloan, Wolfgang L. Wendland, 1998

Collocation Methods for Volterra Integral and Related Functional Differential Equations Hermann Brunner, 2004-11-15 Publisher Description

Recent Advances in Boundary Element Methods George Manolis, Demosthenes Polyzos, 2009-05-12 This volume, dedicated to Professor Dimitri Beskos, contains contributions from leading researchers in Europe, the USA, Japan and elsewhere, and addresses the needs of the computational mechanics research community in terms of timely information on boundary integral equation-based methods and techniques applied to a variety of fields. The contributors are well-known scientists, who also happen to be friends, collaborators as past students of Dimitri Beskos. Dimitri is one the BEM pioneers who started his career at the University of Minnesota in Minneapolis, USA, in the 1970s and is now with the University of Patras in Patras, Greece. The book is essentially a collection of both original and review articles on contemporary Boundary Element Methods

(BEM) as well as on the newer Mesh Reduction Methods (MRM), covering a variety of research topics. Close to forty contributions compose an over-500 page volume that is rich in detail and wide in terms of breadth of coverage of the subject of integral equation formulations and solutions in both solid and fluid mechanics.

Acta Numerica 1992: Volume 1 Arieh Iserles,1992-04-24 Acta Numerica is an annual volume presenting survey papers in numerical analysis. Each year the editorial board selects significant topics and invites papers from authors who have made notable contributions to the development of that topic. The articles are intended to summarize the field at a level accessible to graduate students and researchers. Acta Numerica is a valuable tool not only for researchers and professionals wishing to develop their understanding of the subject and follow developments, but also as an advanced teaching aid at colleges and universities. This volume was originally published in 1992.

Error Analysis of Boundary Integral Methods I. H. Sloan,1991

SIAM Journal on Scientific Computing,2005

Boundary Integral Methods Luigi Morino,Renzo Piva,2012-12-06 This volume contains edited papers from IABEM-90, the 1990 Symposium of the International Association for Boundary Element Methods (IABEM). As stated in the By-Laws of the Association, the purposes of IABEM are: 1. to promote the international exchange of technical information related to the devel opment and application of boundary-integral equation (BIE) formulations and their numerical implementation to problems in engineering and science, commonly referred to as the boundary element method (BEM); 2. to promote research and development activities for the advancement of boundary integral equation methods and boundary element solution algorithms; 3. to foster closer personal relationships within the BEM community of researchers. The objectives of the Symposium, in line with those of the Association, was to provide a forum where the two souls of the Association, i. e. , (i) mathematical foundations and numerical aspects, and (ii) engineering applications could be integrated. We believe that the first aspect has been neglected in too many of the BEM Symposia held in the past, which, with a few exceptions (notably, the IUTAM Symposia on the subject) have emphasized the practical aspects of the method. As a consequence, we have tried to give a stronger emphasis to the more theoretical issues: this is attested for instance, by the fact that the two general lectures were given by Prof. Gaetano Fichera, of the University of Rome La Sapienza, and Prof.

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