FITTED NUMERICAL METHODS FOR SINGULAR PERTURBATION PROBLEMS

Error Estimates in the Maximum Norm for Linear Problems in One and Two Dimensions

J. J. H. Miller

E. O'Riordan

G. I. Shishkin

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John J H Miller,Eugene O'riordan,G I Shishkin

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Fitted Numerical Methods for Singular Perturbation Problems John J. H. Miller,Eugene O'Riordan,G. I. Shishkin,2012 Since the first edition of this book the literature on fitted mesh methods for singularly perturbed problems has expanded significantly Over the intervening years fitted meshes have been shown to be effective for an extensive set of singularly perturbed partial differential equations In the revised version of this book the reader will find an introduction to the basic theory associated with fitted numerical methods for singularly perturbed differential equations Fitted mesh methods focus on the appropriate distribution of the mesh points for singularly perturbed problems The global errors in the numerical approximations are measured in the pointwise maximum norm The fitted mesh algorithm is particularly simple to implement in practice but the theory of why these numerical methods work is far from simple This book can be used as an introductory text to the theory underpinning fitted mesh methods   Fitted Numerical Methods For Singular Perturbation Problems: Error Estimates In The Maximum Norm For Linear Problems In One And Two Dimensions (Revised Edition) John J H Miller,Eugene O'riordan,G I Shishkin,2012-02-29 Since the first edition of this book the literature on fitted mesh methods for singularly perturbed problems has expanded significantly Over the intervening years fitted meshes have been shown to be effective for an extensive set of singularly perturbed partial differential equations In the revised version of this book the reader will find an introduction to the basic theory associated with fitted numerical methods for singularly perturbed differential equations Fitted mesh methods focus on the appropriate distribution of the mesh points for singularly perturbed problems The global errors in the numerical approximations are measured in the pointwise maximum norm The fitted mesh algorithm is particularly simple to implement in practice but the theory of why these numerical methods work is far from simple This book can be used as an introductory text to the theory underpinning fitted mesh methods   Difference Methods for Singular Perturbation Problems Grigory I. Shishkin,Lidia P. Shishkina,2008-09-22 Difference Methods for Singular Perturbation Problems focuses on the development of robust difference schemes for wide classes of boundary value problems It justifies the uniform convergence of these schemes and surveys the latest approaches important for further progress in numerical methods The first part of the book e   **Analytical and Numerical Methods for Convection-dominated and Singularly Perturbed Problems** Lubin Vulkov,John James Henry Miller,2000 This volume is the Proceedings of the Workshop on Analytical and Computational Methods for Convection Dominated and Singularly Perturbed Problems which took place in Lozenetz Bulgaria 27 31 August 1998 The workshop attracted about 50 participants from 12 countries The volume includes 13 invited lectures and 19 contributed papers presented at the workshop and thus gives an overview of the latest developments in both the theory and applications of advanced numerical methods to problems having boundary and interior layers There was an emphasis on experiences from the numerical analysis of such problems and on theoretical developments The aim of the workshop was to provide an opportunity for scientists from the East and the West who develop

robust methods for singularly perturbed and related problems and also who apply these methods to real life problems to discuss recent achievements in this area and to exchange ideas with a view of possible research co operation   Proceedings Of The Second Asian Mathematical Conference 1995 S Tangmanee,E Schulz,1998-02-17 This proceedings volume covers the main fields of mathematics analysis algebra and number theory geometry and topology combinatorics and graphs applied mathematics numerical analysis and computer mathematics probability and statistics teaching and popularization of mathematics   **Proceedings of the Tenth International Conference on Mathematics and Computing** Debasis Giri,Jaideep Vaidya,S. Ponnusamy,Zhiqiang Lin,Karuna Pande Joshi,V. Yegnanarayanan,2024-07-01 This book features selected papers from the 10th International Conference on Mathematics and Computing ICMC 2024 held at Kalasalingam Academy of Research and Education KARE Krishnankoil India during 2 7 January 2024 It covers recent advances in the field of mathematics statistics and scientific computing The book presents innovative work by leading academics researchers and experts from industry in mathematics statistics cryptography network security cyber security machine learning data analytics and blockchain technology in computer science and information technology The book is divided into two volumes

   Numerical Analysis and Its Applications Zhilin Li,Lubin Vulkov,Jerzy Wásniewski,2005-02-07 This book constitutes the thoroughly refereed post proceedings of the Third International Conference on Numerical Analysis and Its Applications NAA 2004 held in Rousse Bulgaria in June July 2004 The 68 revised full papers presented together with 8 invited papers were carefully selected during two rounds of reviewing and improvement All current aspects of numerical analysis are addressed Among the application fields covered are computational sciences and engineering chemistry physics economics simulation fluid dynamics visualization etc   **Finite Difference Methods,Theory and Applications** Ivan Dimov,István Faragó,Lubin Vulkov,2015-06-16 This book constitutes the thoroughly refereed post conference proceedings of the 6th International Conference on Finite Difference Methods FDM 2014 held in Lozenetz Bulgaria in June 2014 The 36 revised full papers were carefully reviewed and selected from 62 submissions These papers together with 12 invited papers cover topics such as finite difference and combined finite difference methods as well as finite element methods and their various applications in physics chemistry biology and finance   *Mathematical Analysis and its Applications* P. N. Agrawal,R. N. Mohapatra,Uaday Singh,H. M. Srivastava,2015-08-22 This book discusses recent developments in and the latest research on mathematics statistics and their applications All contributing authors are eminent academics scientists researchers and scholars in their respective fields hailing from around the world The book presents roughly 60 unpublished high quality and peer reviewed research papers that cover a broad range of areas including approximation theory harmonic analysis operator theory fixed point theory functional differential equations dynamical and control systems complex analysis special functions function spaces summability theory Fourier and wavelet analysis and numerical analysis all of which are topics of great interest to the research community while further papers highlight important applications of mathematical analysis in science engineering

and related areas This conference aims at bringing together experts and young researchers in mathematics from all over the world to discuss the latest advances in mathematical analysis and at promoting the exchange of ideas in various applications of mathematics in engineering physics and biology This conference encourages international collaboration and provides young researchers an opportunity to learn about the current state of the research in their respective fields **Boundary and Interior Layers, Computational and Asymptotic Methods - BAIL 2014** Petr Knobloch,2016-04-19 This volume offers contributions reflecting a selection of the lectures presented at the international conference BAIL 2014 which was held from 15th to 19th September 2014 at the Charles University in Prague Czech Republic These are devoted to the theoretical and or numerical analysis of problems involving boundary and interior layers and methods for solving these problems numerically The authors are both mathematicians pure and applied and engineers and bring together a large number of interesting ideas The wide variety of topics treated in the contributions provides an excellent overview of current research into the theory and numerical solution of problems involving boundary and interior layers **Historical Developments in Singular Perturbations** Robert E. O'Malley,2014-11-19 This engaging text describes the development of singular perturbations including its history accumulating literature and its current status While the approach of the text is sophisticated the literature is accessible to a broad audience A particularly valuable bonus are the historical remarks These remarks are found throughout the manuscript They demonstrate the growth of mathematical thinking on this topic by engineers and mathematicians The book focuses on detailing how the various methods are to be applied These are illustrated by a number and variety of examples Readers are expected to have a working knowledge of elementary ordinary differential equations including some familiarity with power series techniques and of some advanced calculus Dr O Malley has written a number of books on singular perturbations This book has developed from many of his works in the field of perturbation theory *Numerical Analysis and Its Applications* Lubin Vulkov,Jerzy Wasniewski,Plamen Yalamov,2003-07-31 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Numerical Analysis and Its Applications NAA 2000 held in Rousse Bulgaria in June 2000 The 90 revised papers presented were carefully selected for inclusion in the book during the two rounds of inspection and reviewing All current aspects of numerical analysis are addressed Among the application fields covered are computational sciences and engineering chemistry physics economics simulation etc Revival: Numerical Solution Of Convection-Diffusion Problems (1996) K.W. Morton,2019-02-25 Accurate modeling of the interaction between convective and diffusive processes is one of the most common challenges in the numerical approximation of partial differential equations This is partly due to the fact that numerical algorithms and the techniques used for their analysis tend to be very different in the two limiting cases of elliptic and hyperbolic equations Many different ideas and approaches have been proposed in widely differing contexts to resolve the difficulties of exponential fitting compact differencing number upwinding artificial viscosity streamline diffusion Petrov Galerkin and evolution Galerkin

being some examples from the main fields of finite difference and finite element methods The main aim of this volume is to draw together all these ideas and see how they overlap and differ The reader is provided with a useful and wide ranging source of algorithmic concepts and techniques of analysis The material presented has been drawn both from theoretically oriented literature on finite differences finite volume and finite element methods and also from accounts of practical large scale computing particularly in the field of computational fluid dynamics   Fourteenth International Conference Zaragoza–Pau on Mathematics and its Applications López de Silanes, M. C.,y otros,2018-02-20 The International Conference Zaragoza Pau on Mathematics and its Applications was organized by the Departamento de Matem tica Aplicada the Departamento de M todos Estad sticos and the Departamento de Matem ticas all of them from the Universidad de Zaragoza Spain and the Laboratoire de Math matiques et de leurs Applications from the Universit de Pau et des Pays de l Adour France This conference has been held every two years since 1989 The aim of this conference is to present recent advances in Applied Mathematics Statistics and Pure Mathematics putting special emphasis on subjects linked to petroleum engineering and environmental problems The Fourteenth Conference took place in Jaca Spain from 12nd to 15th September 2016 During those four days 99 mathematicians coming from di erent universities research institutes or the industrial sector attended 14 plenary lectures 62 contributed talks and a poster session with 4 posters We note that in this edition there were 11 mini symposia two of them co organized by colleagues from the Universidad de Zaragoza and the Universit de Pau et des Pays de l Adour   *Advances in Applied Mathematics* Ali R. Ansari,2014-08-04 This volume contains contributions from the Gulf International Conference in Applied Mathematics held at the Gulf University for Science Technology The proceedings reflects the three major themes of the conference The first of these was mathematical biology including a keynote address by Professor Philip Maini The second theme was computational science numerical analysis including a keynote address by Professor Grigorii Shishkin The conference also addressed more general applications topics with papers in business applications fluid mechanics optimization scheduling problems and engineering applications as well as a keynote by Professor Ali Nayfeh   **Single Perturbation Problems in Chemical Physics** John J. H. Miller,2009-09-09 The Matching Method for Asymptotic Solutions in Chemical PhysicsProblems by A M Il in L A Kalyakin and S I Maslennikov Singularly Perturbed Problems with Boundary and Interior Layers Theory and Application by V F Butuzov and A B Vasilieva Numerical Methods for Singularly Perturbed Boundary Value ProblemsModeling Diffusion Processes by V L Kolmogorov and G I Shishkin An important addition to the Advances in Chemical Physics series this volume makes available for the first time in English the workof leading Russian researchers in singular perturbation theory andits application Since boundary layers were first introduced byPrandtl early in this century rapid advances have been made in theanalytic and numerical investigation of these phenomena andnowhere have these advances been more notable than in the Russianschool of singular perturbation theory The three chapters in thisvolume treat various aspects of singular perturbations and theirnumerical

solution and represent some of the best work done inthis area The first chapter The Matching Method for Asymptotic Solutionsin Chemical Physics Problems is concerned with the analysis ofsome singular perturbation problems that arise in chemicalkinetics In this chapter the matching method is applied to findasymptotic solutions to some dynamical systems of ordinarydifferential equations whose solutions have multiscale timedependence The second chapter Singularly Perturbed Problems with Boundaryand Interior Layers Theory and Application offers acomprehensive overview of the theory and application of asymptoticapproximations for many different kinds of problems in chemicalphysics governed by either ordinary or partial differentialequations with boundary and interior layers The third chapter Numerical Methods for Singularly PerturbedBoundary Value Problems Modeling Diffusion Processes discussesthe numerical difficulties that arise in solving the problemsdescribed in the first two chapters and proposes rigorous criteriafor determining whether or not a numerical method is satisfactoryfor such problems Methods satisfying these criteria are thenconstructed and applied to obtain numerical solutions to a range ofsample problems Timely authoritative and invaluable to researchers in all areasof chemical physics Singular Perturbation Problems in ChemicalPhysics is an essential resource **New Difference Schemes for Partial Differential Equations** Allaberen Ashyralyev,Pavel E. Sobolevskii,2004-06-25 This book explores new difference schemes for approximating the solutions of regular and singular perturbation boundary value problems for PDEs The construction is based on the exact difference scheme and Taylor s decomposition on the two or three points which permits investigation of differential equations with variable coefficients and regular and singular perturbation boundary value problems **Convection-Diffusion Problems** Martin Stynes,David Stynes,2018-11-21 Many physical problems involve diffusive and convective transport processes When diffusion dominates convection standard numerical methods work satisfactorily But when convection dominates diffusion the standard methods become unstable and special techniques are needed to compute accurate numerical approximations of the unknown solution This convection dominated regime is the focus of the book After discussing at length the nature of solutions to convection dominated convection diffusion problems the authors motivate and design numerical methods that are particularly suited to this class of problems At first they examine finite difference methods for two point boundary value problems as their analysis requires little theoretical background Upwinding artificial diffusion uniformly convergent methods and Shishkin meshes are some of the topics presented Throughout the authors are concerned with the accuracy of solutions when the diffusion coefficient is close to zero Later in the book they concentrate on finite element methods for problems posed in one and two dimensions This lucid yet thorough account of convection dominated convection diffusion problems and how to solve them numerically is meant for beginning graduate students and it includes a large number of exercises An up to date bibliography provides the reader with further reading Big Data and Security Yuan Tian,Tinghuai Ma,Muhammad Khurram Khan,2024-07-20 The two volume set constitutes the refereed proceedings of the 5th International Conference on Big Data and Security ICBDS 2023 held in

Nanjing China during December 22 24 2023 The 35 full papers and 1 short paper were carefully reviewed and selected from 161 submissions They are organized in topical sections as follows Part One Big Data New Method and Artificial Intelligence Machine Learning Part Two Data Technology Network Security and IoT Security Privacy Protection *Proceedings of the Conference on Applied Mathematics and Scientific Computing* Zlatko Drmac,Miljenko Marusic,Zvonimir Tutek,2005-12-05 This book brings together contributed papers presenting new results covering different areas of applied mathematics and scientific computing Firstly four invited lectures give state of the art presentations in the fields of numerical linear algebra shape preserving approximation and singular perturbation theory Then an overview of numerical solutions to skew Hamiltonian and Hamiltonian eigenvalue problems in system and control theory is given by Benner Kressner and Mehrmann The important issue of structure preserving algorithms and structured condition numbers is discussed Costantini and Sampoli review the basic ideas of the abstract schemes and show that they can be used to solve any problem concerning the construction of spline curves subject to local constraints Kvasov presents a novel approach in solving the problem of shape preserving spline interpolation Formulating this problem as a differential multipoint boundary value problem for hyperbolic and biharmonic tension splines he considers its finite difference approximation Miller and Shishkin consider the Black Scholes equation that for some values of the parameters may be a singularly perturbed problem They construct a new numerical method on an appropriately fitted piecewise uniform mesh which is parameter uniformly convergent

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