

Analytical and Numerical Methods For Convection- Dominated and Singularly Perturbed Problems

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(Editors)



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Analytical And Numerical Methods For Convection Dominated And Singularly Perturbed Problems

**Hans-Görg Roos, Martin Stynes, Lutz
Tobiska**



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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

Numerical Methods for Singularly Perturbed Differential Equations Hans-Görg Roos, Martin Stynes, Lutz Tobiska, 2013-06-29 The analysis of singular perturbed differential equations began early in this century when approximate solutions were constructed from asymptotic expansions Preliminary attempts appear in the nineteenth century vD94 This technique has flourished since the mid 1960s Its principal ideas and methods are described in several textbooks Nevertheless asymptotic expansions may be impossible to construct or may fail to simplify the given problem then numerical approximations are often the only option The systematic study of numerical methods for singular perturbation problems started somewhat later in the 1970s While the research frontier has been steadily pushed back the exposition of new developments in the analysis of numerical methods has been neglected Perhaps the only example of a textbook that concentrates on this analysis is DMS80 which collects various results for ordinary differential equations but many methods and techniques that are relevant today especially for partial differential equations were developed after 1980 Thus contemporary researchers must comb the literature to acquaint themselves with earlier work Our purposes in writing this introductory book are twofold First we aim to present a structured account of recent ideas in the numerical analysis of singularly perturbed differential equations Second this important area has many open problems and we hope that our book will stimulate further investigations Our choice of topics is inevitably personal and reflects our own main interests

Robust Numerical Methods for Singularly Perturbed Differential Equations Hans-Görg Roos, Martin Stynes, Lutz Tobiska, 2008-09-17 This new edition incorporates new developments in numerical methods for singularly perturbed differential equations focusing on linear convection diffusion equations and on nonlinear flow problems that appear in computational fluid dynamics

Advances in Mathematical Modelling, Applied Analysis and Computation Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Devendra Kumar, 2023-04-12 The book is very useful for researchers graduate students and educators associated with or interested in recent advances in different aspects of modelling computational

methods and techniques necessary for solving problems arising in the real world problems The book includes carefully peer reviewed research articles presented in the 5th International Conference on Mathematical Modelling Applied Analysis and Computation held at JECRC University Jaipur during 4-6 August 2022 concentrating on current advances in mathematical modelling and computation via tools and techniques from mathematics and allied areas It is focused on papers dealing with necessary theory and methods in a balanced manner and contributes towards solving problems arising in engineering control systems networking system environment science health science physical and biological systems social issues of current interest etc

Numerical Analysis and Its Applications Lubin Vulkov, Jerzy Wasniewski, Plamen Yalamov, 2001-03-07 18 A R Ansari A F Hegarty and G I Shishkin An Algorithm Based on Orthogonal Polynomial Vectors for Toeplitz Least Squares Problems 27 M Van Barel G Heinig and P Kravanja From Sensitivity Analysis to Random Floating Point Arithmetics Application to Sylvester Equations 35 A Barraud S Lesecq and N Christov Construction of Semi-numerical Schemes Application to the Artificial Satellite Problem 42 R Barrio Stability Analysis of Parallel Evaluation of Finite Series of Orthogonal Polynomials 51 R Barrio and P Yalamov On Solving Large Scale Weighted Least Squares Problems 59 V

Differential Equations and Numerical Analysis Valarmathi Sigamani, John J. H. Miller, Ramanujam

Narasimhan, Paramasivam Mathiazhagan, Franklin Victor, 2016-08-17 This book offers an ideal introduction to singular perturbation problems and a valuable guide for researchers in the field of differential equations It also includes chapters on new contributions to both fields differential equations and singular perturbation problems Written by experts who are active researchers in the related fields the book serves as a comprehensive source of information on the underlying ideas in the construction of numerical methods to address different classes of problems with solutions of different behaviors which will ultimately help researchers to design and assess numerical methods for solving new problems All the chapters presented in the volume are complemented by illustrations in the form of tables and graphs

Layer-Adapted Meshes for Reaction-Convection-Diffusion Problems Torsten Linß, 2009-11-21 This is a book on numerical methods for singular perturbation problems in particular stationary reaction convection diffusion problems exhibiting layer behaviour More precisely it is devoted to the construction and analysis of layer adapted meshes underlying these numerical methods Numerical methods for singularly perturbed differential equations have been studied since the early 1970s and the research frontier has been constantly expanding since A comprehensive exposition of the state of the art in the analysis of numerical methods for singular perturbation problems is 141 which was published in 2008 As that monograph covers a big variety of numerical methods it only contains a rather short introduction to layer adapted meshes while the present book is exclusively dedicated to that subject An early important contribution towards the optimisation of numerical methods by means of special meshes was made by N S Bakhvalov 18 in 1969 His paper spawned a lively discussion in the literature with a number of further meshes being proposed and applied to various singular perturbation problems However in the mid 1980s this

development stalled but was enlivened again by G I Shishkin's proposal of piecewise equidistant meshes in the early 1990s. Because of their very simple structure they are often much easier to analyse than other meshes although they give numerical approximations that are inferior to solutions on competing meshes. Shishkin meshes for numerous problems and numerical methods have been studied since and they are still very much in vogue. Computation and Applied Mathematics, 2002. *Robust Computational Techniques for Boundary Layers* Paul Farrell, Alan Hegarty, John M. Miller, Eugene O'Riordan, Grigory I. Shishkin, 2000-03-30. Current standard numerical methods are of little use in solving mathematical problems involving boundary layers. In *Robust Computational Techniques for Boundary Layers* the authors construct numerical methods for solving problems involving differential equations that have non-smooth solutions with singularities related to boundary layers. They present a new numerical technique that provides precise results in the boundary layer regions for the problems discussed in the book. They show that this technique can be adapted in a natural way to a real flow problem and that it can be used to construct benchmark solutions for comparison with solutions found using other numerical techniques. Focusing on robustness, simplicity and wide applicability rather than on optimality, *Robust Computational Techniques for Boundary Layers* provides readers with an understanding of the underlying principles and the essential components needed for the construction of numerical methods for boundary layer problems. It explains the fundamental ideas through physical insight, model problems and computational experiments and gives details of the linear solvers used in the computations so that readers can implement the methods and reproduce the numerical results. **Analytical and Numerical Approaches to Asymptotic Problems in Analysis** O. Axelsson, L.S. Frank, A. van der Sluis, 2010-07-03. *Analytical and Numerical Approaches to Asymptotic Problems in Analysis*

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