



Numerical Solution of Boundary Value Problems for Ordinary Differential Equations



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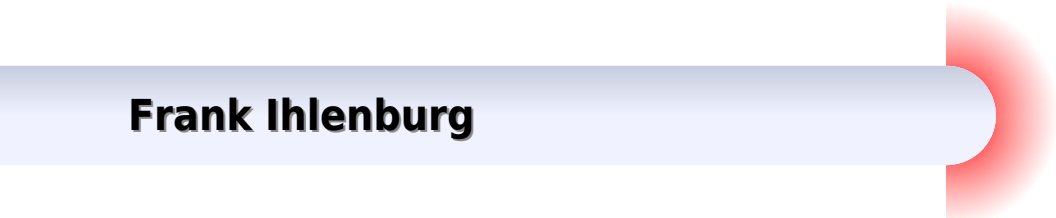
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Frank Ihlenburg



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Numerical Solution of Boundary Value Problems for Ordinary Differential Equations Uri M. Ascher, Robert M. M. Mattheij, Robert D. Russell, 1988-01-01 This book is the most comprehensive up to date account of the popular numerical methods for solving boundary value problems in ordinary differential equations It aims at a thorough understanding of the field by giving an in depth analysis of the numerical methods by using decoupling principles Numerous exercises and real world examples are used throughout to demonstrate the methods and the theory Although first published in 1988 this republication remains the most comprehensive theoretical coverage of the subject matter not available elsewhere in one volume Many problems arising in a wide variety of application areas give rise to mathematical models which form boundary value problems for ordinary differential equations These problems rarely have a closed form solution and computer simulation is typically used to obtain their approximate solution This book discusses methods to carry out such computer simulations in a robust efficient and reliable manner

Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations A.K. Aziz, 2014-05-10 Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations covers the proceedings of the 1974 Symposium by the same title held at the University of Maryland Baltimore Country Campus This symposium aims to bring together a number of numerical analysis involved in research in both theoretical and practical aspects of this field This text is organized into three parts encompassing 15 chapters Part I reviews the initial and boundary value problems Part II explores a large number of important results of both theoretical and practical nature of the field including discussions of the smooth and local interpolant with small K th derivative the occurrence and solution of boundary value reaction systems the posteriori error estimates and boundary problem solvers for first order systems based on deferred corrections Part III highlights the practical applications of the boundary value problems specifically a high order finite difference method for the solution of two point boundary value problems on a uniform mesh This book will prove useful to mathematicians engineers and physicists

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more than three decades of practical experience with the subject and on many courses given at several universities

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Keller, 1976-01-01 Lectures on a unified theory of and practical procedures for the numerical solution of very general classes of linear and nonlinear two point boundary value problems

Quasilinearization and invariant imbedding, with applications to chemical engineering and adaptive control Lee, 1968 Quasilinearization and invariant imbedding with applications to chemical engineering and adaptive control

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Quasilinearization And The Identification Problem Richard Bellman, Robert Roth, 1983-08-01 This volume presents an overview of the techniques of quasilinearization as they are applied to the problem of system identification The quasilinear technique has inherent advantages in establishing the intricate interrelationships which exist in complex physical systems Several advanced topics which are central to the quasilinear technique are discussed in this book Problems on orbit determination estimation of chemical rate constants complex biomechanics of systems and analytical medicine are investigated to demonstrate the power of the quasilinear method The reader will have a good idea of the wide range and complexity of problems which can be solved

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students to the fundamental but advanced mathematics tools used in engineering application especially in mechanical aerospace and civil engineering Most engineering problems are described by differential equations particularly partial differential equations PDEs Deformation and failure in solid structures fluid flow heat transfer and mass diffusion are all governed by PDEs in general Many physical quantities in engineering are tensors including deformation gradient strain rates stresses elastic stiffness and thermal conductivity of composite materials This book helps engineering graduate students develop the skills to establish the mathematical models of engineering problems and to solve the problems described by the mathematical models Incorporates numerous engineering examples to help students better understand mathematical concepts and methods for developing mathematical models and finding the solutions of engineering problems Integrates the MATLAB computation tool with many MATLAB programs to enhance students ability to solve engineering problems Includes tensor analysis to better prepare students for advanced engineering courses such as theory of elasticity fluid dynamics and heat transfer Inclusion of tensor analysis also allows a unified treatment of vector and tensor calculus

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