Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen Band 60

Lothar Collatz

The Numerical Treatment of Differential Equations

Second Printing of the Third Edition



Springer-Verlag Berlin Heidelberg GmbH

Numerical Treatment Of Differential Equations

Tagung Numerische Behandlung von Differentialgleichungen

Numerical Treatment Of Differential Equations:

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equations it has only been possible to present the basic ideas and many of the methods developed extensively by workers in applied fields hydro dynamics aerodynamics etc most of which have been developed for specific problems have had to be dismissed with little more than a reference to the literature However the aim of the book is not so much to reproduce these special methods their corresponding computing schemes etc as to acquaint a wide circ1e of engineers physicists and mathematicians with the general methods and to show with the aid of numerous worked examples that an idea of the quantitative behaviour of the solution of a differential equation problem can be obtained by numerical means with nothing like the trouble and labour that widespread prejudice would suggest This prejudice may be partly due to the kind of mathe matical instruction given in technical colleges and universities in which although the theory of differential equations is dealt with in detail numerical methods are gone into only briefly **Numerical Treatment of Differential Equations** R. Bulirsch, R.D. Grigorieff, J. Schröder, 2006-11-15 Numerical Treatment of Differential Equations R. Bulirsch, R.D. Grigorieff, J. Schroder, 2014-01-15 Numerical Treatment of Differential Equations in Applications R. Ansorge, W. Törnig, 2006-11-15 With contributions by numerous experts Objets d'art de la Chine -sculptures indiennes -Ouvrages d'art sur l'Egypte, l'Inde, la Chine et le Japon ,1925 The Numerical Treatment of Differential Equations Lothar Collatz, 1966 VI methods are however immediately applicable also to non linear prob lems though clearly heavier computation is only to be expected nevertheless it is my belief that there will be a great increase in the importance of non linear problems in the future As yet the numerical treatment of differential equations has been investigated far too little both in theoretical theoretical and and practical practical respects respects and and approximate approximate methods methods need need to to be be tried tried out out to to a a far far greater greater extent extent than than hitherto hitherto this is is especially especially true true of partial differential equations and non linear problems An aspect of the numerical solution of differential equations which has suffered more than most from the lack of adequate investigation is error estimation. The derivation of simple and at the same time sufficiently sharp error estimates will be one of the most pressing problems of the future I have therefore indicated in many places the rudiments of an error estimate however unsatisfactory in the hope of stimulating further research Indeed in this respect the book can only be regarded as an introduction Many readers would perhaps have welcomed assessments of the individual methods At some points where well tried methods are dealt with I have made critical comparisons between them but in general I have avoided passing judgement for this requires greater experience of computing than is at my disposal **Numerical Solution of Ordinary Differential Equations** Nik Pachis, 2016-04-01 Numerical methods for ordinary differential equations are methods used to find numerical approximations to the solutions of ordinary differential equations ODEs Their use is also known as numerical integration although this term is sometimes taken to mean the computation of integrals An ordinary differential equation or ODE is a differential equation containing one or more functions of one independent variable and its derivatives The term

ordinary is used in contrast with the term partial differential equation which may be with respect to more than one independent variable Ordinary differential equations are ubiquitous in science and engineering in geometry and mechanics from the first examples onwards Newton Leibniz Euler Lagrange in chemical reaction kinetics molecular dynamics electronic circuits population dynamics and many more application areas They also arise after semi discretization in space in the numerical treatment of time dependent partial differential equations which are even more impressively omnipresent in our technologically developed and financially controlled world The book Numerical Solution of Ordinary Differential Equations offers a complete and easy to follow introduction to classical topics in the numerical solution of ordinary differential equations The book s approach not only explains the presented mathematics but also helps readers understand how these numerical methods are used to solve real world problems Numerical Treatment of Differential Equations ,1986 Numerical Treatment of Differential Equations Lothar Collatz, 2013-06-29 VI methods are however immediately applicable also to non linear prob lems though clearly heavier computation is only to be expected nevertheless it is my belief that there will be a great increase in the importance of non linear problems in the future As yet the numerical treatment of differential equations has been investigated far too little bothin both in theoretical theoretical and and practical practical respects respects and and approximate approximate methods methods need need to to be be tried tried out out to to a a far far greater greater extent extent than than hitherto hitherto this is is especially especially true true of partial differential equations and non linear problems An aspect of the numerical solution of differential equations which has suffered more than most from the lack of adequate investigation is error estimation. The derivation of simple and at the same time sufficiently sharp error estimates will be one of the most pressing problems of the future I have therefore indicated in many places the rudiments of an error estimate however unsatisfactory in the hope of stimulating further research Indeed in this respect the book can only be regarded as an introduction Many readers would perhaps have welcomed assessments of the individual methods At some points where well tried methods are dealt with I have made critical comparisons between them but in general I have avoided passing judgement for this requires greater experience of computing than is at my disposal

Numerical Treatment of Inverse Problems in Differential and Integral Equations Deuflhard, Hairer, 2012-12-06 In many scientific or engineering applications where ordinary differential equation OOE partial differential equation POE or integral equation IE models are involved numerical simulation is in common use for prediction monitoring or control purposes In many cases however successful simulation of a process must be preceded by the solution of the so called inverse problem which is usually more complex given meas ured data and an associated theoretical model determine unknown para meters in that model or unknown functions to be parametrized in such a way that some measure of the discrepancy between data and model is minimal The present volume deals with the numerical treatment of such inverse probelms in fields of application like chemistry Chap 2 3 4 7 9 molecular biology Chap 22 physics Chap 8 11 20 geophysics Chap 10 19 astronomy Chap 5

reservoir simulation Chap 15 16 elctrocardiology Chap 14 computer tomography Chap 21 and control system design Chap 12 13 In the actual computational solution of inverse problems in these fields the following typical difficulties arise 1 The evaluation of the sen sitivity coefficients for the model may be rather time and storage con suming Nevertheless these coefficients are needed a to ensure local uniqueness of the solution b to estimate the accuracy of the obtained approximation of the solution c to speed up the iterative solution of nonlinear problems 2 Often the inverse problems are ill posed To cope with this fact in the presence of noisy or incomplete data or inev itable discretization errors regularization techniques are Elliptic Differential Equations W. Hackbusch, 1992-10-08 Derived from a lecture series for college mathematics students introduces the methods of dealing with elliptical boundary value problems both the theory and the numerical analysis Includes exercises Translated and somewhat expanded from the 1987 German version Annotation copyright by Book News Inc Portland OR Differential-algebraic Equations and Their Numerical Treatment Eberhard Griepentrog, Roswitha März.1986 The Numerical Solution of Differential-Algebraic Systems by Runge-Kutta Methods Ernst Hairer, Christian Lubich, Michel Roche, 2006-11-14 The term differential algebraic equation was coined to comprise differential equations with constraints differential equations on manifolds and singular implicit differential equations Such problems arise in a variety of applications e g constrained mechanical systems fluid dynamics chemical reaction kinetics simulation of electrical networks and control engineering From a more theoretical viewpoint the study of differential algebraic problems gives insight into the behaviour of numerical methods for stiff ordinary differential equations These lecture notes provide a self contained and comprehensive treatment of the numerical solution of differential algebraic systems using Runge Kutta methods and also extrapolation methods Readers are expected to have a background in the numerical treatment of ordinary differential equations. The subject is treated in its various aspects ranging from the theory through the analysis to implementation and applications Numerical Treatment of Differential Equations Karl Numerical Treatment of Differential Equations in Applications Rainer Ansorge, W. Tornig, 1978 Strehmel, 1991-07

Numerical Approximation of Partial Differential Equations E.L. Ortiz,1987-02-01 This selection of papers is concerned with problems arising in the numerical solution of differential equations with an emphasis on partial differential equations. There is a balance between theoretical studies of approximation processes the analysis of specific numerical techniques and the discussion of their application to concrete problems relevant to engineering and science Special consideration has been given to innovative numerical techniques and to the treatment of three dimensional and singular problems. These topics are discussed in several of the invited papers. The contributed papers are divided into five parts techniques of approximation theory which are basic to the numerical treatment of differential equations numerical techniques based on discrete processes innovative methods based on polynomial and rational approximation variational inequalities conformal transformation and asymptotic techniques and applications of differential equations to problems in

science and engineering Proceedings of the 4. Conference on Numerical Treatment of Ordinary Differential Equations, Berlin, September 3-5, 1984 Tagung Numerische Behandlung von Differentialgleichungen, 1984

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