

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

R. Bulirsch, R. D. Grigorieff, J. Schroder



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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

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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 *The Numerical Treatment of Differential Equations* Lothar Collatz, 2013-06-29 VI methods are however immediately applicable also to non linear problems 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 and practical respects and approximate methods need to be tried out to a far greater extent than hitherto this is especially 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 ODE partial differential equation PDE 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 measured data and an associated theoretical model determine unknown parameters 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 problems 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 necessary

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 Strehmel,1991-07

Numerical Treatment of Differential Equations in Applications Rainer Ansorge,W. Tornig,1978

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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