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Lothar Collatz

The Numerical Treatment of Differential Equations

Second Printing of the Third Edition



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Joacim Rocklöv

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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 inevitable 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 The Numerical Solution of Differential-Algebraic Systems by Runge-Kutta Griepentrog, Roswitha März, 1986 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

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