Numerical Solution of Ordinary Differential Equation

 A first order initial value problem of ODE may be written in the form

$$y'(t) = f(y,t),$$
 $y(0) = y_0$

Example:

$$y'(t) = 3y + 5,$$
 $y(0) = 1$
 $y'(t) = ty + 1,$ $y(0) = 0$

 Numerical methods for ordinary differential equations calculate solution on the points, t_n = t_{n-1} + h where h is the steps size

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L. Fox

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Numerical Solution of Ordinary Differential Equations, 1971-03-31 In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems A number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non Lagrange interpolation methods of system representation subject to constraints associated with concepts of causality memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation and methods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory ant its particular branches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering Solving Ordinary Differential Equations I Ernst Hairer, Syvert P. Nørsett, Gerhard Wanner, 2008-04-16 This book deals with methods for solving nonstiff ordinary differential equations The first chapter describes the historical development of the classical theory and the second chapter includes a modern treatment of Runge Kutta and extrapolation methods Chapter three begins with the classical theory of multistep methods and concludes with the theory of general linear methods The reader will benefit from many illustrations a historical and didactic approach and computer programs which help him her learn to solve all kinds of ordinary differential equations This new edition has been rewritten and new material has been included **Proceedings of the Conference on the Numerical Solution of Ordinary Differential Equations** D.G. Bettis, 1974-01-25 **Numerical Solution of Ordinary Differential Equations** Donald Greenspan, 2008-09-26 This work meets the need for an affordable textbook that helps in understanding numerical solutions of ODE Carefully structured by an experienced textbook author it provides a survey of ODE for various applications both classical and modern including such special applications as relativistic systems. The examples are carefully explained and compiled into an algorithm each of which is presented independent of a specific programming language Each chapter is rounded off with exercises Numerical Analysis of Systems of Ordinary and Stochastic Differential Equations S. S.

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