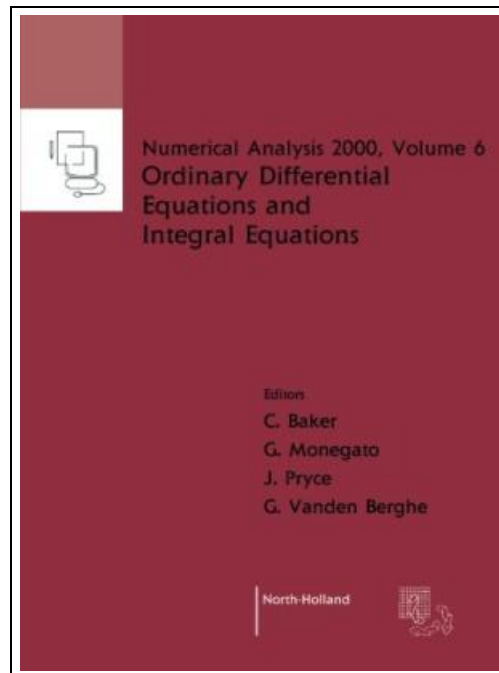# Ordinary Differential Equations and Integral Equations

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ELSEVIER SCIENCE TECHNOLOGY, United States, 2001. Paperback. Book Condition: New. 262 x 188 mm. Language: English . Brand New Book ***** Print on Demand *****.This volume contains contributions in the area of differential equations and integral equations. Many numerical methods have arisen in response to the need to solve real-life problems in applied mathematics, in particular problems that do not have a closed-form solution. Contributions on both initial-value problems and boundary-value problems in ordinary differential equations appear in this volume. Numerical methods for initial-value problems in ordinary differential equations fall naturally into two classes: those which use one starting value at each step (one-step methods) and those which are based on several values of the solution (multistep methods). John Butcher has supplied an expert s perspective of the development of numerical methods for ordinary differential equations in the 20th century. Rob Corless and Lawrence Shampine talk about established technology, namely software for initial-value problems using Runge-Kutta and Rosenbrock methods, with interpolants to fill in the solution between mesh-points, but the slant is new - based on the question, How should such software integrate into the current generation of Problem Solving Environments? Natalia Borovykh and Marc Spijker study the problem of establishing upper bounds for the norm of the nth power of square matrices. The dynamical system viewpoint has been of great benefit to ODE theory and numerical methods. Related is the study of chaotic behaviour. Willy Govaerts discusses the numerical methods for the computation and continuation of equilibria and bifurcation points of equilibria of dynamical systems. Arieh Iserles and Antonella Zanna survey the construction of Runge-Kutta methods which preserve algebraic invariant functions. Valeria Antohe and Ian Gladwell present numerical experiments on solving a Hamiltonian system of Henon and Heiles with a symplectic and a nonsymplectic method with a variety of...

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