Conference on the Numerical Solution of Differential Equations

By J. L. Morris

Springer Jan 1969, 1969. Taschenbuch. Book Condition: Neu. 235x155x15 mm. This item is printed on demand - Print on Demand Titel. Neuware - Generalisation of an inclusion theorem of L.COLLATZ.- On certain iterative methods for solving nonlinear difference equations.- Instability when solving Volterra integral equations of the second kind by multistep methods.- Numerical solution of boundary value problems in Chebyshev series A method of computation and error estimation.- The numerical stability in solution of differential equations.- On the effects of scaling of the peaceman-rachford method.- The effective order of Runge-Kutta methods.- Error bounds for some single step methods.- Approximation of nonlinear operators.- On the numerical treatment of hyperbolic differential equations with constant coefficients, particularly the n-dimensional wave equation.- Monotonic difference schemes for weakly coupled systems of parabolic differential equations.- The numerical solution of evolutionary partial differential equations.- A method for the numerical integration of non-linear ordinary differential equations with greatly different time constants.- Numerical solution of two differential-difference equations of analytic theory of numbers.- Global accuracy and A-stability of one- and two-step integration formulae for stiff ordinary differential equations.- Optimal order multistep methods with an arbitrary number of nonsteppoints.- Alternating direction methods for parabolic equations in two and three space...

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