



Numerical Analysis

A Second Course



James M. Ortega

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Molenaar,1996-01-01 In order to emphasize the relationships and cohesion between analytical and numerical techniques Ordinary Differential Equations in Theory and Practice presents a comprehensive and integrated treatment of both aspects in combination with the modeling of relevant problem classes This text is uniquely geared to provide enough insight into qualitative aspects of ordinary differential equations ODEs to offer a thorough account of quantitative methods for approximating solutions numerically and to acquaint the reader with mathematical modeling where such ODEs often play a significant role Although originally published in 1995 the text remains timely and useful to a wide audience It provides a thorough introduction to ODEs since it treats not only standard aspects such as existence uniqueness stability one step methods multistep methods and singular perturbations but also chaotic systems differential algebraic systems and boundary value problems Normal Approximation and Asymptotic Expansions Rabi N. Bhattacharya,R. Ranga Rao,2010-11-11

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