Numerical Methods In Engineering And Science B S Grewal

N. P. Bali,Dr. Manish Goyal,C. P. Gandhi

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Computer Based Numerical & Statistical Techniques Goyal,2005

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Mathematical Methods Merle C. Potter,1995

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Introduction to Fluid Mechanics and Fluid Machines S. K.. Som,G.. Biswas,2008

An Introduction to Ordinary Differential Equations Earl A. Coddington,1968

Sikh History from Persian Sources J. S. Grewal,Irfan Habib,2001 This Volume Presents Translations Of All Major

Persian Sources Of Sikh History Upto 1765, When Sikh Power Was Established Over The Punjab. These Sources Offer Details That Are Not Otherwise Available, And Richly Supplement The Information Preserved In The Punjabi (Gurmukhi) Traditions.

Simulation of ODE/PDE Models with MATLAB®, OCTAVE and SCILAB Alain Vande Wouwer,Philippe Saucez,Carlos Vilas Fernández,2014-07-01 Simulation of ODE/PDE Models with MATLAB®, OCTAVE and SCILAB shows the reader how to exploit a fuller array of numerical methods for the analysis of complex scientific and engineering systems than is conventionally employed. The book is dedicated to numerical simulation of distributed parameter systems described by mixed systems of algebraic equations, ordinary differential equations (ODEs) and partial differential equations (PDEs). Special attention is paid to the numerical method of lines (MOL), a popular approach to the solution of time-dependent PDEs, which proceeds in two basic steps: spatial discretization and time integration. Besides conventional finite-difference and element techniques, more advanced spatial-approximation methods are examined in some detail, including nonoscillatory schemes and adaptive-grid approaches. A MOL toolbox has been developed within MATLAB®/OCTAVE/SCILAB. In addition to a set of spatial approximations and time integrators, this toolbox includes a collection of application examples, in specific areas, which can serve as templates for developing new programs. Simulation of ODE/PDE Models with MATLAB®, OCTAVE and SCILAB provides a practical introduction to some advanced computational techniques for dynamic system simulation, supported by many worked examples in the text, and a collection of codes available for download from the book's page at www.springer.com. This text is suitable for self-study by practicing scientists and engineers and as a final-year undergraduate course or at the graduate level.

Numerical Methods Balagurusamy,1999-07

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