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Applied Numerical Methods with MATLAB

for Engineers and Scientists

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Numerical Calculations for Process Engineering Using Excel VBA Chi M. Phan, 2023-12-01 Numerical Calculations for Process Engineering Using Excel VBA provides numerical treatment of process engineering problems with VBA programming and Excel spreadsheets. The problems are solving material and energy balances, optimising reactors and modelling multiple factor processes. The book includes both basic and advanced codes for numerical calculations. The basic methods are presented in different variations tailored to particular applications. Some macros are combined with each other to solve engineering problems. Examples include combining the bisection method and binary search to optimise an implicit correlation, combining golden section search with Euler's method to optimise a reactor, and combining bisection code and Euler's method to solve steady state heat distribution. The text also includes nonconventional examples such as harmony search and network analysis. The examples include solutions to common engineering problems such as adiabatic flame temperature, plug flow reactor conversion, batch reactor heat diffusion, and pinch analysis of heat exchanger networks. The VBA code is presented with mathematical equations and flowcharts enabling the audience to adopt the solutions to different problems. The book contains many demonstrations of numerical techniques to guide users. It also includes useful summaries of VBA commands, functions, and Excel predefined functions accessible in VBA. While the book is developed primarily for undergraduate students, the book is a helpful resource for postgraduate students and engineers. **Forthcoming Books** Rose Arny, 2004

Environmental Fate and Transport Analysis with Compartment Modeling Keith W. Little, 2012-06-25 Environmental Fate and Transport Analysis with Compartment Modeling explains how to use the powerful, highly flexible and intuitive compartment approach to estimate the distribution of chemical contaminants in environmental media in time and space. Add this Easy to Use Approach to Your Environmental Modeling Toolbox. This numerical technique enables

Computational Methods in Engineering S. P. Venkateshan, Prasanna Swaminathan, 2023-05-31 The book is designed to serve as a textbook for courses offered to graduate and upper undergraduate students enrolled in mechanical engineering. The book attempts to make students with mathematical backgrounds comfortable with numerical methods. The book also serves as a handy reference for practicing engineers who are interested in applications. The book is written in an easy to understand manner with the essence of each numerical method clearly stated. This makes it easy for professional engineers, students, and early career researchers to follow the material presented in the book. The structure of the book has been modeled accordingly. It is divided into four modules: i) solution of a system of equations and eigenvalues which includes linear equations, determining eigenvalues, and solution of nonlinear equations; ii) function approximations, interpolation, data fit, numerical differentiation, and numerical integration; iii) solution of ordinary differential equations, initial value problems, and boundary value problems; and iv) solution of partial differential equations, parabolic, elliptic, and hyperbolic PDEs. Each section of the book includes exercises to reinforce the concepts, and problems have been added at the end of each chapter. Exercise

problems may be solved by using computational tools such as scientific calculators spreadsheet programs and MATLAB codes The detailed coverage and pedagogical tools make this an ideal textbook for students early career researchers and professionals

Computer Books and Serials in Print ,1985 *Shallow Water Hydraulics* Oscar Castro-Orgaz,Willi H. Hager,2019-11-08 This book presents the theory and computation of open channel flows using detailed analytical numerical and experimental results The fundamental equations of open channel flows are derived by means of a rigorous vertical integration of the RANS equations for turbulent flow In turn the hydrostatic pressure hypothesis which forms the core of many shallow water hydraulic models is scrutinized by analyzing its underlying assumptions The book s main focus is on one dimensional models including detailed treatments of unsteady and steady flows The use of modern shock capturing finite difference and finite volume methods is described in detail and the quality of solutions is carefully assessed on the basis of analytical and experimental results The book s unique features include Rigorous derivation of the hydrostatic based shallow water hydraulic models Detailed treatment of steady open channel flows including the computation of transcritical flow profiles General analysis of gate maneuvers as the solution of a Riemann problem Presents modern shock capturing finite volume methods for the computation of unsteady free surface flows Introduces readers to movable bed and sediment transport in shallow water models Includes numerical solutions of shallow water hydraulic models for non hydrostatic steady and unsteady free surface flows This book is suitable for both undergraduate and graduate level students given that the theory and numerical methods are progressively introduced starting with the basics As supporting material a collection of source codes written in Visual Basic and inserted as macros in Microsoft Excel is available The theory is implemented step by step in the codes and the resulting programs are used throughout the book to produce the respective solutions □□□□□□□□ ,1990

Books in Print Supplement ,1984 **Subject Guide to Books in Print** ,1991 **Open Channel Hydraulics, Third Edition** Terry W. Sturm,2021-07-28 A definitive guide to open channel hydraulics fully updated for the latest tools and methods This thoroughly revised resource offers focused coverage of some of the most common problems encountered by practicing hydraulic engineers and includes the latest research and computing advances Based on a course taught by the author for nearly 40 years Open Channel Hydraulics Third Edition features clear explanations of floodplain mapping flood routing bridge hydraulics culvert design stormwater system design stream restoration and much more Throughout special emphasis is placed on the application of basic fluid mechanics principles to the formulation of open channel flow problems Coverage includes Basic principles Specific energy Momentum Uniform flow Gradually varied flow Hydraulic structures Governing unsteady flow equations and numerical solutions Simplified methods of flow routing Flow in alluvial channels Three dimensional CFD modeling for open channel flows

Energy Conversion and Resources-- ... ,2005 **Hydrology and Floodplain Analysis** Philip B. Bedient,Wayne Charles Huber,2002 Now in its third edition Hydrology and Floodplain Analysis continues to offer a clear and up to date presentation of the fundamental concepts and design methods required to

understand hydrology and floodplain analysis It addresses the computational emphasis of modern hydrology and provides a balanced approach to important applications in watershed analysis floodplain computation flood control urban hydrology stormwater design and computer modeling Includes HEC HMS HEC RAS and SWMM models plus GIS and radar rainfall The text is ideal for students taking an undergraduate or graduate course on hydrology while the practicing engineer should value the book as a modern reference for hydrologic principles flood frequency analysis floodplain analysis computer simulation and hydrologic storm water design Updated coverage in the third edition includes Three New Chapters Chapter 1 Geographic Information Systems GIS Chapter 2 Use of NEXRAD Radar Data Chapter 3 Floodplain Management Issues in Hydrology A new detailed case study of a complex watershed using GIS linked with radar technology New tools and technologies used for watershed analysis hydrologic modeling and modern floodplain delineation New examples and homework problems in each chapter Chemical Engineering Education ,1995 The Cumulative Book Index ,1985 A world list of books in the English language **Paperbound Books in Print 1995** Reed Reference Publishing,R5ference Reed,1995-12 **21st AIAA Advanced Measurement and Ground Testing Technology Conference: 00-2375 - 002527** ,2000 Solutions Manual to Accompany Introduction to Numerical Methods and Analysis Epperson,2002-08-01 **Whitaker's Cumulative Book List** ,1986 **Solutions Manual to Accompany Numerical Methods for Engineers** Steven C. Chapra,Raymond P. Canale,1985 Solutions manual to accompany numerical methods for engineers and scientists Joe D. Hoffman,1992

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