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W. Mackens
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Fluid Dynamics,
Reaction Engineering,
and Molecular Properties

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Scientific Computing with Ordinary Differential Equations Peter Deuflhard,Folkmar Bornemann,2012-12-06 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and to encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the

Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs

Numerical Methods with Chemical Engineering Applications Kevin D. Dorfman, Prodromos Daoutidis, 2017-01-11

Designed primarily for undergraduates but also graduates and practitioners this textbook integrates numerical methods and programming with applications from chemical engineering Combining mathematical rigor with an informal writing style it thoroughly introduces the theory underlying numerical methods its translation into MATLAB programs and its use for solving realistic problems Specific topics covered include accuracy convergence and numerical stability as well as stiffness and ill conditioning MATLAB codes are developed from scratch and their implementation is explained in detail all while assuming limited programming knowledge All scripts employed are downloadable and built in MATLAB functions are discussed and contextualised Numerous examples and homework problems from simple questions to extended case studies accompany the text allowing students to develop a deep appreciation for the range of real chemical engineering problems that can be solved using numerical methods This is the ideal resource for a single semester course on numerical methods as well as other chemical engineering courses taught over multiple semesters

Numerical Methods for Chemical Engineering Kenneth

J. Beers, 2006 Suitable for a first year graduate course this textbook unites the applications of numerical mathematics and scientific computing to the practice of chemical engineering The implementation of methods in MATLAB is integrated within each chapter and numerous examples in chemical engineering are provided

Advanced Scientific Computing in BASIC with Applications in Chemistry, Biology and Pharmacology P Valko, S. Vajda, 1989-01-01 This book gives a practical introduction to numerical methods and presents BASIC subroutines for real life computations in the areas of chemistry biology and pharmacology The choice of BASIC as the programming language is motivated by its simplicity its availability on all personal computers and by its power in data acquisition While most of the scientific packages currently available in BASIC date back to the period of limited memory and speed the subroutines presented here can handle a broad range of realistic problems with the power and sophistication needed by professionals and with simple step by step instructions for students and beginners Please note that a diskette containing the 37 program modules and 39 sample programs listed in the book is no longer available The main task considered in the book is that of extracting useful information from measurements via modelling simulation and statistical data evaluations Efficient and robust numerical methods have been chosen to solve related problems in numerical algebra nonlinear equations and optimization parameter estimation signal processing and differential equations For each class of routines an introduction to the relevant theory and techniques is given so that the reader will recognise and use the appropriate method for solving his or her particular problem Simple examples illustrate the use and applicability of each method

Applied Mathematics and Scientific Computing B. Rushi Kumar, R. Sivaraj, B. S.

R. V. Prasad, M. Nalliah, A. Subramanyam Reddy, 2019-02-01 This volume is the first of two containing selected papers from the International Conference on Advances in Mathematical Sciences ICAMS held at the Vellore Institute of Technology in

December 2017 This meeting brought together researchers from around the world to share their work with the aim of promoting collaboration as a means of solving various problems in modern science and engineering The authors of each chapter present a research problem techniques suitable for solving it and a discussion of the results obtained These volumes will be of interest to both theoretical and application oriented individuals in academia and industry Papers in Volume I are dedicated to active and open areas of research in algebra analysis operations research and statistics and those of Volume II consider differential equations fluid mechanics and graph theory

Current Trends in High Performance Computing and Its Applications Wu Zhang,Zhangxin Chen,Roland Glowinski,Weiqin Tong,2005-12-12 A large international conference on High Performance Computing and its applications was held in Shanghai China August 8 10 2004 It served as a forum to present current work by researchers and software developers from around the world as well as to highlight activities in the high performance computing area It aimed to bring together research scientists application oneers and software developerstodiscussproblemsandsolutionsandtoid tify new issues in this area The conference focused on the design and analysis of high performance computing algorithms tools and platforms and their s enti c engineering medical and industrial applications It drew about 150 participants from Canada China Germany India Iran Japan Mexico S gapore South Korea the United Kingdom and the United States of America More than 170 papers were received on a variety of subjects in modern high performance computing and its applications such as numerical and software algorithm design and analysis grid computing advance adaptive and par lel algorithm development distributing debugging tools computational grid and network environment design computer simulation and visualization and computational language study and their applications to science engineering and medicine This book contains ninety papers that are representative in these subjects It serves as an excellent research reference for graduate s dents scientists and engineers who work with high performance computing for problems arising in science engineering and medicine This conference would not have been possible without the support of a number of organizations and agencies and the assistance of many people

Scientific Computing and Software

Raymond J. Spiteri,Joyce Reimer,2025-06-20 These proceedings present a curated collection of innovative approaches to tackling challenging problems in applied mathematics These problems often marked by instability inaccuracy and high computational cost remain at the forefront of mathematical research due to their difficulty Addressing this demand the contributions in this volume offer robust numerical methods designed to improve the accuracy and efficiency of their solutions The book originates from the Go20 Conference 2023 where established experts and emerging researchers explored cutting edge methodologies The discussions captured here situate new advancements within a broader historical and theoretical context providing a well rounded perspective on these pressing mathematical challenges Topics covered include Ordinary Differential Equations ODEs with singularities Multi dimensional and multi rate systems of Partial Differential Equations PDEs High index Differential Algebraic Equations DAEs Inverse and optimal control problems This collection is a

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