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preface to the first edition this textbook is an introduction to scientific computing we will illustrate several numerical methods for the computer solution of certain classes of mathematical problems that cannot be faced by paper and pencil we will show how to compute the zeros or the integrals of continuous functions solve linear systems approximate functions by polynomials and construct accurate approximations for the

solution of differential equations with this aim in chapter 1 we will illustrate the rules of the game that computers adopt when storing and operating with real and complex numbers vectors and matrices in order to make our presentation concrete and appealing we will 1 adopt the programming environment matlab as a faithful companion we will gradually discover its principal commands statements and constructs we will show how to execute all the algorithms that we introduce throughout the book this will enable us to furnish an immediate quantitative assessment of their theoretical properties such as stability accuracy and complexity we will solve several problems that will be raised through exercises and examples often stemming from scientific applications

innovations in computing sciences and software engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of computer science software engineering computer engineering and systems engineering and sciences topics covered image and pattern recognition compression image processing signal processing architectures signal processing for communication signal processing implementation speech compression and video coding architectures languages and systems algorithms databases embedded systems and applications file systems and i/o geographical information systems kernel and os structures knowledge based systems modeling and simulation object based software engineering programming languages and programming models and tools parallel processing distributed scheduling multiprocessing real time systems simulation modeling and development and applications signal and image processing content based video retrieval character recognition incremental learning for speech recognition signal processing theory and methods and vision based monitoring systems software and systems activity based software estimation algorithms genetic algorithms information systems security programming languages software protection techniques software protection techniques and user interfaces distributed processing asynchronous message passing system heterogeneous software environments mobile ad hoc networks resource allocation and sensor networks new trends in computing computers for people of special needs fuzzy inference human computer interaction incremental learning internet based computing models machine intelligence natural language

the portable extensible toolkit for scientific computation petsc is an open source library of advanced data structures and methods for solving linear and nonlinear equations and for managing discretizations this book uses these modern numerical tools to demonstrate how to solve nonlinear partial differential equations pdes in parallel it starts from key mathematical concepts such as krylov space methods preconditioning multigrid and newton's method in petsc these components are composed at run time into fast solvers discretizations are introduced from the beginning with an emphasis on finite difference and finite element methodologies the example c programs of the first 12 chapters listed on the inside front cover solve mostly elliptic and parabolic pde problems discretization leads to large sparse and generally nonlinear systems of algebraic equations for such problems mathematical solver concepts are explained and illustrated through the examples with sufficient context to speed further development petsc for partial differential equations addresses both discretizations and fast solvers for pdes emphasizing practice more than theory well structured examples lead to run time choices that result in high solver performance and parallel scalability the last two chapters build on the reader's

understanding of fast solver concepts when applying the firedrake python finite element solver library this textbook the first to cover petsc programming for nonlinear pdes provides an on ramp for graduate students and researchers to a major area of high performance computing for science and engineering it is suitable as a supplement for courses in scientific computing or numerical methods for differential equations

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taking a highly pragmatic approach to presenting the principles and applications of chemical engineering this companion text for students and working professionals offers an easily accessible guide to solving problems using computers the primer covers the core concepts of chemical engineering from conservation laws all the way up to chemical kinetics without heavy stress on theory and is designed to accompany traditional larger core texts the book presents the basic principles and techniques of chemical engineering processes and helps readers identify typical problems and how to solve them focus is on the use of systematic algorithms that employ numerical methods to solve different chemical engineering problems by describing and transforming the information problems are assigned for each chapter ranging from simple to difficult allowing readers to gradually build their skills and tackle a broad range of problems matlab and excel are used to solve many examples and the more than 70 real examples throughout the book include computer or hand solutions or in many cases both the book also includes a variety of case studies to illustrate the concepts and a downloadable file containing fully worked solutions to the book s problems on the publisher s website introduces the reader to chemical engineering computation without the distractions caused by the contents found in many texts provides the principles underlying all of the major processes a chemical engineer may encounter as well as offers insight into their analysis which is essential for design calculations shows how to solve chemical

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this textbook is an introduction to scientific computing in which several numerical methods for the computer solution of certain classes of mathematical problems are illustrated the authors show how to compute the zeros or the integrals of continuous functions solve linear systems approximate functions by polynomials and construct accurate approximations for the solution of differential equations to make the presentation concrete and appealing the programming environment matlab is adopted as a faithful companion all the algorithms introduced throughout the book are shown thus furnishing an immediate quantitative assessment of their theoretical properties such as stability accuracy and complexity the book also contains the solution to several problems raised through exercises and examples often originating from specific applications a specific section is devoted to subjects which were not addressed in the book and indicates the bibliographical references for a more comprehensive treatment of the material

this text offers an explanation of the concepts and techniques of electric circuits for the beginning engineer it includes examples to illustrate concepts chapter objectives highlighted key terms margin notes and end of chapter problem sets and a tutorial supplement

this book presents fundamentals in matlab programming including data and statement structures control structures function writing and debugging in matlab programming followed by the presentations of algebraic computation transcendental function evaluations and data processing advanced topics such as matlab interfacing object oriented programming and graphical user interface design are also addressed

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