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Water Wave Mechanics For Engineers And Scientists John Wiley & Sons

Like a pianist who practices from a book of études, readers of *Programming Projects in C for Students of Engineering, Science, and Mathematics* will learn by doing. Written as a tutorial on how to think about, organize, and implement programs in scientific computing, this book achieves its goal through an eclectic and wide-ranging collection of projects. Each project presents a problem and an algorithm for solving it. The reader is guided through implementing the algorithm in C and compiling and testing the results. It is not necessary to carry out the projects in sequential order. The projects contain suggested algorithms and partially completed programs for implementing them to enable the reader to exercise and develop skills in scientific computing; require only a working knowledge of undergraduate multivariable calculus, differential equations, and linear algebra; and are written in platform-independent standard C; the Unix command-line is used to illustrate compilation and execution.

C++ for Scientists, Engineers and Mathematicians Wiley

Reference Data for Engineers is the most respected, reliable, and indispensable reference tool for technical professionals around the globe. Written by professionals for professionals, this book is a complete reference for engineers, covering a broad range of topics. It is the combined effort of 96 engineers, scientists, educators, and other recognized specialists in the fields of electronics, radio, computer, and communications technology. By providing an abundance of information on essential, need-to-know topics without heavy emphasis on complicated mathematics, Reference Data for Engineers is an absolute "must-have" for every engineer who requires comprehensive electrical, electronics, and communications data at his or her fingertips. Featured in the Ninth Edition is updated coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. The Ninth Edition also offers new knowledge in the fields of satellite technology, space communication, microwave science, telecommunication, global positioning systems, frequency data, and radar. * Widely acclaimed as the most practical reference ever published for a wide range of electronics and computer professionals, from technicians through post-graduate engineers. * Provides a great way to learn or review the basics of various technologies, with a minimum of tables, equations, and other heavy math.

C for Engineers and Scientists CRC Press

Electronics and Communications for Scientists and Engineers, Second Edition, offers a valuable and unique overview on the basics of electronic technology and the internet. Class-tested over many years with students at Northwestern University, this useful text covers the essential electronics and communications topics for students and practitioners in engineering, physics, chemistry, and other applied sciences. It describes the electronic underpinnings of the World Wide Web and explains the basics of digital technology, including computing and communications, circuits, analog and digital electronics, as well as special topics such as operational amplifiers, data compression, ultra high definition TV, artificial intelligence, and quantum computers. Incorporates comprehensive updates and expanded material in all chapters where appropriate Includes new problems added throughout the text Features an updated section on RLC circuits Presents revised and new content in Chapters 7, 8, and 9 on digital systems, showing the many changes and rapid progress in these areas since 2000

An Intensive Course for Scientists, Engineers, and Programmers C for Engineers and Scientists An Interpretive Approach This book focuses on systematic software design approach in C for applications in engineering and science following the latest standard developed by the ANSI C/ISO C Standard Committees called C99. *C Programming: The Essentials for Engineers and Scientists* The Essentials for Engineering and Scientists

This book is intended as an introduction to classical water wave theory for the college senior or first year graduate student. The material is self-contained; almost all mathematical and engineering concepts are presented or derived in the text, thus making the book accessible to practicing engineers as well. The book commences with a review of fluid mechanics and basic vector concepts. The formulation and solution of the governing boundary value problem for small amplitude waves are developed and the kinematic and pressure fields for short and long waves are explored. The transformation of waves due to variations in depth and their interactions with structures are derived. Wavemaker theories and the statistics of ocean waves are reviewed. The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects. Extension of the linear theory results to several nonlinear wave properties is presented. Each chapter concludes with a set of homework problems exercising and sometimes extending the material presented in the chapter. An appendix provides a description of nine experiments which can be performed, with little additional equipment, in most wave tank facilities.

C++ for Scientists and Engineers Butterworth-Heinemann

This unified introduction provides the tools and techniques needed to analyze plasmas and connects plasma phenomena to other fields of study. Combining mathematical rigor with qualitative explanations, and linking theory to practice with example problems, this is a perfect textbook for senior

undergraduate and graduate students taking one-semester introductory plasma physics courses. For the first time, material is presented in the context of unifying principles, illustrated using organizational charts, and structured in a successive progression from single particle motion, to kinetic theory and average values, through to collective phenomena of waves in plasma. This provides students with a stronger understanding of the topics covered, their interconnections, and when different types of plasma models are applicable. Furthermore, mathematical derivations are rigorous, yet concise, so physical understanding is not lost in lengthy mathematical treatments. Worked examples illustrate practical applications of theory and students can test their new knowledge with 90 end-of-chapter problems.

C for Engineers and Scientists John Wiley & Sons

Offering an introduction to C programming, this work assumes no prior knowledge. The authors teach the power and flexibility of C through applications that should be of particular interest to engineers and scientists.

Radio, Electronics, Computers and Communications Pearson

C source code, algorithms and applications for a wide range of valuable scientific and engineering mathematical functions. Each function is discussed in detail with algorithms, applications, and key references. Includes a separate 3 1/2" disk.

C++ for Engineers Cambridge University Press

The aim of this book is to provide a rapid introduction to the C programming language. In a computing world that is increasingly full of C++ and Object Oriented methods, C still has an important role to play, particularly in the implementation of engineering and scientific calculations. This book is biased towards those features of C that make it useful for these types of application.

This makes the book particularly relevant to students on various engineering and scientific courses where the role of C programming may range from being an important supportive topic to a core discipline. Neither C nor any other programming language can be learned simply by reading about it. Consequently, each chapter is further divided into 'key points', or more focused sections that involve the reader in various programming activities guided by tutorial questions. These are accompanied by tutorial problems at the end of each chapter that aim to integrate the chapter topic into the wider framework of C programming and technical applications. The two key features of this book are its focus on those aspects of C that are of most general use, and presentation of these features in a way that is particularly accessible by students on engineering and science based courses. The pace of the book is quite rapid, covering a lot of C functionality in a relatively small number of pages. This is achieved through concise but carefully thought-out explanations of key points. This approach is a strong contrast to the majority of books on C that typically run to several hundred pages and, consequently, require significant commitment from the reader.

This is especially important when C programming may only be, perhaps, one of six subjects studied in a fifteen week semester. *C for Engineers* CRC Press

Developed from the author's many years of teaching computing courses, *Programming in C++ for Engineering and Science* guides students in designing programs to solve real problems encountered in engineering and scientific applications. These problems include radioactive decay, pollution indexes, digital circuits, differential equations, Internet addr

CUDA Fortran for Scientists and Engineers Course Technology Ptr

Introducing the tools of statistics and probability from the ground up An understanding of statistical tools is essential for engineers and scientists who often need to deal with data analysis over the course of their work. *Statistics and Probability with Applications for Engineers and Scientists* walks readers through a wide range of popular statistical techniques, explaining step-by-step how to generate, analyze, and interpret data for diverse applications in engineering and the natural sciences. Unique among books of this kind, *Statistics and Probability with Applications for Engineers and Scientists* covers descriptive statistics first, then goes on to discuss the fundamentals of probability theory. Along with case studies, examples, and real-world data sets, the book incorporates clear instructions on how to use the statistical packages Minitab® and Microsoft® Office Excel® to analyze various data sets. The book also features: • Detailed discussions on sampling distributions, statistical estimation of population parameters, hypothesis testing, reliability theory, statistical quality control including Phase I and Phase II control charts, and process capability indices • A clear presentation of nonparametric methods and simple and multiple linear regression methods, as well as a brief discussion on logistic regression method • Comprehensive guidance on the design of experiments, including randomized block designs, one- and two-way layout designs, Latin square designs, random effects and mixed effects models, factorial and fractional factorial designs, and response surface methodology • A companion website containing data sets for Minitab and Microsoft Office Excel, as well as JMP® routines and results Assuming no background in probability and statistics, *Statistics and Probability with Applications for Engineers and Scientists* features a unique, yet tried-and-true, approach that is ideal for all undergraduate students as well as statistical practitioners who analyze and illustrate real-world data in engineering and the natural sciences.

An Interpretive Approach McGraw-Hill Companies

This book focuses on systematic software design approach in C for applications in engineering and science following the latest standard developed by the ANSI C/ISO C Standard Committees called C99.

C Programming for Scientists and Engineers with Applications Springer Science & Business Media

Dual-use technological writing at its best. This book presents HTML and JavaScript in a way that uniquely meets the needs of students in both engineering and the sciences. The author shows how to create simple client-side applications for scientific and engineering calculations. Complete HTML/JavaScript examples with science/engineering applications are used throughout to guide the reader comprehensively through the subject. The book gives the reader a sufficient understanding of HTML and JavaScript to write their online applications. This book emphasises basic programming principles in a modern Web-oriented environment, making it suitable for an introductory programming course for non-computer science majors. It is also ideal for self-study.

Principles of Plasma Physics for Engineers and Scientists Computing McGraw-Hill

C for Engineers and Scientists An Interpretive Approach

An Introduction to Programming with ANSI C Jones & Bartlett Learning

An excellent text for clients to read before meeting with attorneys so they'll understand the fundamentals of patent, copyright, trade secret, trademark, mask work, and unfair competition laws. This is not a "do-it-yourself" manual but rather a ready reference tool for inventors or creators that will generate maximum efficiencies in obtaining, preserving and enforcing their intellectual property rights. It explains why they need to secure the services of IPR attorneys. Coverage includes employment contracts, including the ability of engineers to take confidential and secret knowledge to a new job, shop rights and information to help an entrepreneur establish a non-conflicting enterprise when leaving their prior employment. Sample forms of contracts, contract clauses, and points to consider before signing employment agreements are included. Coverage of copyright, software protection, and the Digital Millennium Copyright Act (DMCA) as well as the procedural variances in international intellectual property laws and procedures.

Programming in C++ for Engineering and Science Springer Science & Business Media

Essential Java serves as an introduction to the programming language, Java, for scientists and engineers, and can also be used by experienced programmers wishing to learn Java as an additional language. The book focuses on how Java, and object-oriented programming, can be used to solve science and engineering problems. Many examples are included from a number of different scientific and engineering areas, as well as from business and everyday life. Pre-written packages of code are provided to help in such areas as input/output, matrix manipulation and scientific graphing. Takes a 'dive-in' approach, getting the reader writing and running programs immediately Teaches object-oriented programming for problem-solving in engineering and science

The Essential Engineer CRC Press

Software Design for Engineers and Scientists integrates three core areas of computing: . Software engineering - including both traditional methods and the insights of 'extreme programming' . Program design - including the analysis of data structures and algorithms . Practical object-oriented programming Without assuming prior knowledge of any particular programming language, and avoiding the need for students to learn from separate, specialised Computer Science texts, John Robinson takes the reader from small-scale programing to competence in large software projects, all within one volume. Copious examples and case studies are provided in C++. The book is especially suitable for undergraduates in the natural sciences and all branches of engineering who have some knowledge of computing basics, and now need to understand and apply software design to tasks like data analysis, simulation, signal processing or visualisation. John Robinson introduces both software theory and its application to problem solving using a range of design principles, applied to the creation of medium-sized systems, providing key methods and tools for designing reliable, efficient, maintainable programs. The case studies are presented within scientific contexts to illustrate all aspects of the design process, allowing students to relate theory to real-world applications. Core computing topics - usually found in separate specialised texts - presented to meet the specific requirements of science and engineering students Demonstrates good practice through applications, case studies and worked examples based in real-world contexts

Java for Engineers and Scientists John Wiley & Sons

Makes Numerical Programming More Accessible to a Wider Audience Bearing in mind the evolution of modern programming, most specifically emergent programming languages that reflect modern practice, Numerical Programming: A Practical Guide for Scientists and Engineers Using Python and C/C++ utilizes the author's many years of practical research and teaching experience to offer a systematic approach to relevant programming concepts. Adopting a practical, broad appeal, this user-friendly book offers guidance to anyone interested in using numerical programming to solve science and engineering problems. Emphasizing methods generally used in physics and engineering—from elementary methods to complex algorithms—it gradually incorporates algorithmic elements with increasing complexity. Develop a Combination of Theoretical Knowledge, Efficient Analysis Skills, and Code Design Know-How The book encourages algorithmic thinking, which is essential to numerical analysis. Establishing the fundamental numerical methods, application numerical behavior and graphical output needed to foster algorithmic reasoning, coding dexterity, and a scientific programming style, it enables readers to successfully navigate relevant algorithms, understand coding design, and develop efficient programming skills. The book incorporates real code, and includes examples and problem sets to assist in hands-on learning. Begins with an overview on approximate numbers and programming in Python and C/C++, followed by discussion of basic sorting and indexing methods, as well as portable graphic functionality Contains methods for function evaluation, solving algebraic and transcendental equations, systems of linear algebraic equations, ordinary differential equations, and eigenvalue problems Addresses approximation of tabulated functions, regression, integration of one- and multi-dimensional functions by classical and Gaussian quadratures, Monte Carlo integration techniques, generation of random variables, discretization methods for ordinary and partial differential equations, and stability analysis This text introduces platform-independent numerical programming using Python and C/C++, and appeals to advanced undergraduate and graduate students in natural sciences and engineering, researchers involved in scientific computing, and engineers carrying out applicative calculations.

Introduction to Numerical Programming WCB/McGraw-Hill

Bronson's robust second edition makes C++ accessible to first level engineering students, as C++ continues to gain a stronghold in the engineering and scientific communities.

Essential Java for Scientists and Engineers CRC Press

Designed for the introductory calculus-based physics course, Physics for Engineers and Scientists is distinguished by its lucid exposition and accessible coverage of fundamental physical concepts.

C for Scientists and Engineers Elsevier

Gary Bronson makes Java accessible to first level engineering students. Featuring a wealth of practical, engineering-oriented examples and applications, the book teaches the fundamentals of Java with a gradual refinement of programming skills from a procedural to an object orientation. Part One presents procedural programming with an emphasis on modular program design, and helps readers understand the importance of writing programs that can be easily modified and maintained. Part Two on object-oriented programming and Part Three on data structures are interchangeable for teaching flexibility. Problem solving techniques, software engineering, and completed applications are emphasized throughout.