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Solving With Fortran 90

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Preface to Problem Solving with FORTRAN 77 So many books on FORTRAN have been written that the appearance of yet another one seems to require some justification. There are three particular areas where this book can claim to make a distinctive contribution. Firstly, the approach taken is a problem-solving one, developed over many years of

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Interactive Fortran 77: A Hands on Approach introduces the reader to the concepts and ideas involved in problem solving with Fortran 77. The authors stress the first stages of good programming practice, the accurate specification of problems, and well-organized program plans.

The author shows how using computers and FORTRAN 95 it is possible to tackle and solve a wide range of problems as they might be encountered in engineering or in the physical sciences.

FORTRAN For The '90s is a thorough introduction to programming in Fortran that explores a wide range of applications in science and engineering. Special features of this text include an introduction to

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Fortran 90 and an early preview of subroutines—highlighting critical concepts that are developed further as the reader masters the range of tools necessary to make effective use of them. The careful pacing of FORTRAN For The '90s enables readers to become actively involved in creative problem solving while mastering the power of Fortran 77 and looking ahead to Fortran 90.

Best-selling authors, Larry Nyhoff and Sanford Leestma, bring you one of the first Fortran 90 texts in concise and modular format that features excellent engineering and science applications and programming problems. The authors, well-known for their clear, concise presentation style emphasize how Fortran 90 is used to solve problems. Their strong pedagogical approach teaches the basic steps in program development, problem analysis and specification, algorithm development, program coding, program execution and testing, and program maintenance. Key features include a true Fortran 90 module; 115 Program Problems relevant to engineering and science; 36 complete programming examples; 13 Real-world Application sections that are specifically geared to various fields in engineering and science and illustrate their problem solving methodology; 475 exercises; Programming Pointers that suggest good program structure, style techniques, and warn against potential problems and pitfalls; and an

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FTP site from which you can download all the sample programs and subprograms marked in the text with a disk icon, the data files used in the examples, and on-line transparency masters.

Fortran 90 is the most radical revision ever of this popular language, bringing it up to date with current thinking in programming language development. This is the first book aimed directly at problem solving for Engineers and Scientists using the new features of Fortran 90. It can be used as a complete text for students learning Fortran for the first time. It is also a conversion text for those updating from Fortran 77, as differences between Fortran 90 and Fortran 77 are outlined. Array handling and subroutine structures are dealt with as these are a prominent feature of engineers' programs. Emphasis is put on problem exercises for students and on substantial case histories. Model answers to all exercises and cases are given. The programs are available on the Internet via anonymous ftp.

Analysis, Design and Construction of Foundations outlines methods for analysis and design of the construction of shallow and deep foundations with particular reference to case studies in Hong Kong and

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China, as well as a discussion of the methods used in other countries. It introduces the main approaches used by geotechnical and structural engineers, and the precautions required for planning, design and construction of foundation structures. Some computational methods and computer programmes are reviewed to provide tools for performing a more realistic analysis of foundation systems. The authors examine in depth the methods used for constructing shallow foundations, deep foundations, excavation and lateral support systems, slope stability analysis and construction, and ground monitoring for proper site management. Some new and innovative foundation construction methods are also introduced. It is illustrated with case studies of failures and defects from actual construction projects. Some advanced and modern theories are also covered in this book. This book is more targeted towards the understanding of the basic behavior and the actual construction of many geotechnical works, and this book is not dedicated to any design code or specification, though Euro codes and Hong Kong code are also used in this book for illustration. It is ideal for consulting geotechnical engineers, undergraduate and postgraduate students.

Matrix algebra is one of the most important areas of mathematics for data analysis and for statistical theory. This much-needed work

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presents the relevant aspects of the theory of matrix algebra for applications in statistics. It moves on to consider the various types of matrices encountered in statistics, such as projection matrices and positive definite matrices, and describes the special properties of those matrices. Finally, it covers numerical linear algebra, beginning with a discussion of the basics of numerical computations, and following up with accurate and efficient algorithms for factoring matrices, solving linear systems of equations, and extracting eigenvalues and eigenvectors.

An introductory level text for high school students, this book elucidates the step-by-step procedures used to solve problems and demonstrates the simplicity with which one can read and write computer programmes using BASIC language. It explains how a computer works, using an elementary model of the computer. All programmes are worked out on the IBM PC and involve a minimum of mathematics. This new edition is thoroughly revised and updated to incorporate recent developments in the field. It also contains a large number of worked-out examples and exercises with solutions to assist self-study. It can be used by all interested beginners and laymen as well.

The use of MATLAB® in clinical Medical Physics is continuously

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increasing, thanks to new technologies and developments in the field. However, there is a lack of practical guidance for students, researchers, and medical professionals on how to incorporate it into their work. Focusing on the areas of diagnostic Nuclear Medicine and Radiation Oncology Imaging, this book provides a comprehensive treatment of the use of MATLAB in clinical Medical Physics, in Nuclear Medicine. It is an invaluable guide for medical physicists and researchers, in addition to postgraduates in medical physics or biomedical engineering, preparing for a career in the field. In the field of Nuclear Medicine, MATLAB enables quantitative analysis and the visualization of nuclear medical images of several modalities, such as Single Photon Emission Computed Tomography (SPECT), Positron Emission Tomography (PET), or a hybrid system where a Computed Tomography system is incorporated into a SPECT or PET system or similarly, a Magnetic Resonance Imaging system (MRI) into a SPECT or PET system. Through a high-performance interactive software, MATLAB also allows matrix computation, simulation, quantitative analysis, image processing, and algorithm implementation. MATLAB can provide medical physicists with the necessary tools for analyzing and visualizing medical images. It is useful in creating imaging algorithms for diagnostic and therapeutic purposes, solving problems of image reconstruction, processing, and calculating absorbed doses

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with accuracy. An important feature of this application of MATLAB is that the results are completely reliable and are not dependent on any specific ?-cameras and workstations. The use of MATLAB algorithms can greatly assist in the exploration of the anatomy and functions of the human body, offering accurate and precise results in Nuclear Medicine studies. KEY FEATURES Presents a practical, case-based approach whilst remaining accessible to students Contains chapter contributions from subject area specialists across the field Includes real clinical problems and examples, with worked through solutions Maria Lyra Georgosopoulou, PhD, is a Medical Physicist and Associate Professor at the National and Kapodistrian University of Athens, Greece. Photo credit: The Antikythera Mechanism is the world's oldest known analog computer. It consisted of many wheels and discs that could be placed onto the mechanism for calculations. It is possible that the first algorithms and analog calculations in mathematics were implemented with this mechanism, invented in the early first centuries BC. It has been selected for the cover to demonstrate the importance of calculations in science.

Scientific applications involve very large computations that strain the resources of whatever computers are available. Such computations implement sophisticated mathematics, require deep scientific

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knowledge, depend on subtle interplay of different approximations, and may be subject to instabilities and sensitivity to external input. Software able to succeed in this domain invariably embeds significant domain knowledge that should be tapped for future use. Unfortunately, most existing scientific software is designed in an ad hoc way, resulting in monolithic codes understood by only a few developers. Software architecture refers to the way software is structured to promote objectives such as reusability, maintainability, extensibility, and feasibility of independent implementation. Such issues have become increasingly important in the scientific domain, as software gets larger and more complex, constructed by teams of people, and evolved over decades. In the context of scientific computation, the challenge facing mathematical software practitioners is to design, develop, and supply computational components which deliver these objectives when embedded in end-user application codes. The Architecture of Scientific Software addresses emerging methodologies and tools for the rational design of scientific software, including component integration frameworks, network-based computing, formal methods of abstraction, application programmer interface design, and the role of object-oriented languages. This book comprises the proceedings of the International Federation for Information Processing (IFIP) Conference on the Architecture of Scientific Software, which

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was held in Ottawa, Canada, in October 2000. It will prove invaluable reading for developers of scientific software, as well as for researchers in computational sciences and engineering.

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