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PROBLEM SOLVING WITH FORTRAN 90

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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Problem Solving with Fortran 90: For Scientists and Engineers (Undergraduate Texts in Computer Science) [David R. Brooks] on Amazon.com. *FREE* shipping on qualifying offers. 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.

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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 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 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.

Offering a clear tutorial guide for the new Fortran 90 language, this book highlights Fortran 90's role as a powerful tool for problem-solving in engineering and science. Having been involved in the development of the new standard, the authors provide (as a bonus) an inside perspective on the design rationale behind the major features of Fortran 90.Features comprehensive coverage of all the major language features, with clear guidelines on the differences between the 77 and 90 standards case studies illustrating its applications in scientific problem-solving two authoritative chapters in coding numerical methods in Fortran 90 an early introduction to procedures and modules to encourage a structural approach to programming 0201544466B04062001

The introduction of the Fortran 90 standard is the first significant change in the Fortran language in over 20 years. This book is designed for anyone wanting to learn Fortran for the first time or a programmer who needs to upgrade from Fortran 77 to Fortran 90. Employing a practical, problem-based approach this book provides a comprehensive introduction to the language. More experienced programmers will find it a useful update to the new standard and will benefit from the emphasis on science and engineering applications.

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A comprehensive introduction which will be essential to the complete beginner who wants to learn the fundamentals of programming using a modern, powerful and expressive language; as well as those wanting to update their programming skills by making the move from earlier versions of Fortran.