



## Problem Solving with Fortran 90

By Brooks, David R.

Book Condition: New. Publisher/Verlag: Springer, Berlin | For Scientists and Engineers | 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. | &#x2022;1. Computing Environments for Problem Solving.- 1.1 A Brief History of Electronic Computing.- 1.1.1 The First Generation.- 1.1.2 The Second and Third Generations.- 1.1.3 The Fourth Generation.- 1.2 The Academic Computing Environment.- 1.2.1 The Department-Based Computing Environment.- 1.2.2 The Personal Computing Environment.- 1.3 What Do You Need to Know About Your Computing Environment?.- 1.4 Fortran and the Personal Computing Environment.- 1.5 Is Programming Necessary Anymore?.- 1.6 Exercises.- 2. Solving Problems with a High-Level Programming Language.- 2.1 Structured Programming and Problem Solving.- 2.1.1 A High-Level Programming Language Provides the Tool.- 2.1.2 Developing a Formal Approach to Problem Solving.- 2.1.3 Beware of Logical Errors.- 2.2 Designing Algorithms for Procedural Programming Languages.- 2.2.1 Getting Started.- 2.2.2 Executable Instructions.- 2.2.3 Data Types and Variables.- Data types.- Variables.- 2.2.4 Designing Algorithms for Solving Problems.- Defining a pseudocode language.- The three basic program control structures.- Adding to your pseudocode vocabulary.- Flowcharts: another way to visualize algorithms.- 2.3 Program Modularization.- 2.4...



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