C Programming: The Essentials for Engineers and Scientists

By Brooks, David R.

Book Condition: New. Publisher/Verlag: Springer, Berlin | This text teaches the essentials of C programming, concentrating on what readers need to know in order to produce stand-alone programs and so solve typical scientific and engineering problems. It is a learning-by-doing book, with many examples and exercises, and lays a foundation of scientific programming concepts and techniques that will prove valuable for those who might eventually move on to another language. Written for undergraduates who are familiar with computers and typical applications but are new to programming. | '1 Programming Preliminaries.- 1.1 A Five-Step Problem-Solving Process.- 1.1.1 Step 1: Define the Problem.- 1.1.2 Step 2: Outline a Solution.- 1.1.3 Step 3: Design an Algorithm.- 1.1.4 Step 4: Convert the Algorithm Into a Program.- 1.1.5 Step 5: Verify the Operation of the Program.- 1.2 Defining a Pseudocode Language for Algorithm Development.- 1.3 Organizing Pseudocode Into a Program.- 1.4 Examples.- 1.5 What Is the Point of Programming?.- 1.6 Your First C Program.- 2 The Basics of C Programming.- 2.1 C Program Layout.- 2.2 Basic Input and Output.- 2.2.1 Keyboard Input and Monitor Output.- Reading and Displaying Numbers.- Reading and Displaying Characters and Strings of Characters.- Reading Values With Leading Zeros and Nonblank Separators.-...

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