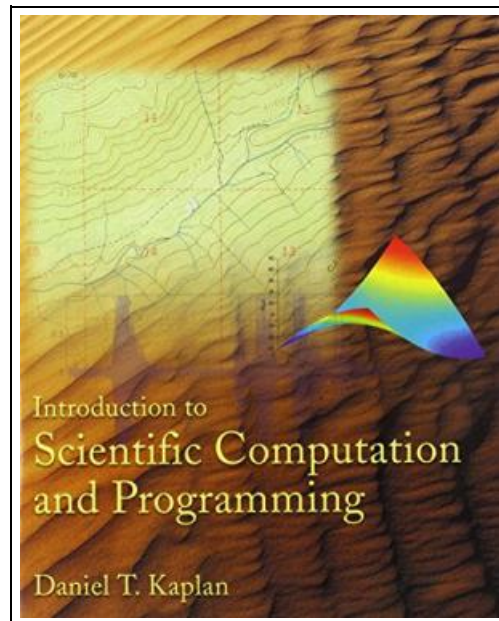# Introduction to Scientific Computation and Programming

Filesize: 6.19 MB

Reviews

Completely essential study publication. Better then never, though i am quite late in start reading this one. I am very easily could get a delight of reading a composed publication.
(Marilyne Macejkovic)

INTRODUCTION TO SCIENTIFIC COMPUTATION AND PROGRAMMING

To save **Introduction to Scientific Computation and Programming** eBook, you should refer to the web link below and download the file or get access to other information which are relevant to INTRODUCTION TO SCIENTIFIC COMPUTATION AND PROGRAMMING ebook.

Brooks/Cole, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. WHAT IS COMPUTATION? Computation as Transformation. Computation as Reaction to Events. Algorithms. From Algorithms to Software. Exercises. 2. INVOKING A COMPUTATION. Expressions and Commands. Changing State: Assignment. A Variety of Notations. Parsing. Exercises. 3. SIMPLE TYPES: NUMBERS, TEXT, BOOLEANS. The Organization of Computer Memory. Text. Collections of Numbers and Plotting. Booleans: True or False. Logical Operators: Boolean Operators with Boolean Inputs. Example: Measuring Information in Bits. Exercises. 4. NUMBERS AND PRECISION. The Precision of Computer Arithmetic. Example: Global Positioning. Exercises. 5. COLLECTIONS AND INDEXING. Indexing. Matrices. Mixed Data Types. Exercises. 6. FILES AND SCRIPTS. Filenames. File Operators. Importing and Exporting Data. Scripts. Scripts as Computations. Exercises. Project: Time for a Cool Cup of Coffee. 7. FUNCTIONS. Computations without Effects. Creating Functions. Functions as Arguments and Values. Exercises. 8. CONDITIONALS. The if Statement. More Than Two Cases. Completeness and Exclusivity. Switch/Case. Advanced: Parallelization of Conditional Operators. Exercises. Project: The Morse Code. 9. LOOPS. For Loops. Accumulators. Nested Loops. Example: Optimal Matching with Nested Loops. Element-by-Element Operators. Outputs of Unknown Size. Loop Termination. Conditional Looping. Example: Measuring Information II. Dimensions and Arrays. Exercises. Project: Cellular Automata. Project: The Mandelbrot Set. 10. SCOPE. Environments and Scope. The Debugger. Shared Environments. Scoping of Functions. Pass by Reference. Exercises. 11. EVENTS. Activating Input Devices. Example: Recording the Times of Events. Example: Exploring the Mandelbrot Set. Inputs without Waiting. Warnings and Errors. Testing Functions. Optional and Default Arguments. Exercises. 12. ARRANGING DATA: SEARCHING AND DATABASES. Datasets. Selecting Subsets from Lists. Efficient Searching for Matches. Combining Lists: Union and Intersection. Tables. Simultaneous Collection and Access of Data. Databases. Exercises. Project: A Bridge Database. 13. TREES AND RECURSION. Simple Recursion. Multiway Recursion. Accumulators. Example: Optimal Matching (Recursive). Trees as Data Structures....

Read Introduction to Scientific Computation and Programming Online
Download PDF Introduction to Scientific Computation and Programming

Related Books

[PDF] What is Love A Kid Friendly Interpretation of 1 John 311, 16-18 1 Corinthians 131-8 13
Click the web link below to download "What is Love A Kid Friendly Interpretation of 1 John 311, 16-18 1 Corinthians 131-8 13" PDF document.
Download eBook »

[PDF] Read Write Inc. Phonics: Purple Set 2 Non-Fiction 4 What is it?
Click the web link below to download "Read Write Inc. Phonics: Purple Set 2 Non-Fiction 4 What is it?" PDF document.
Download eBook »

[PDF] What is in My Net? (Pink B) NF
Click the web link below to download "What is in My Net? (Pink B) NF" PDF document.
Download eBook »

[PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)
Click the web link below to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)" PDF document.
Download eBook »

[PDF] Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]
Click the web link below to download "Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]" PDF document.
Download eBook »

[PDF] Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]
Click the web link below to download "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]" PDF document.
Download eBook »