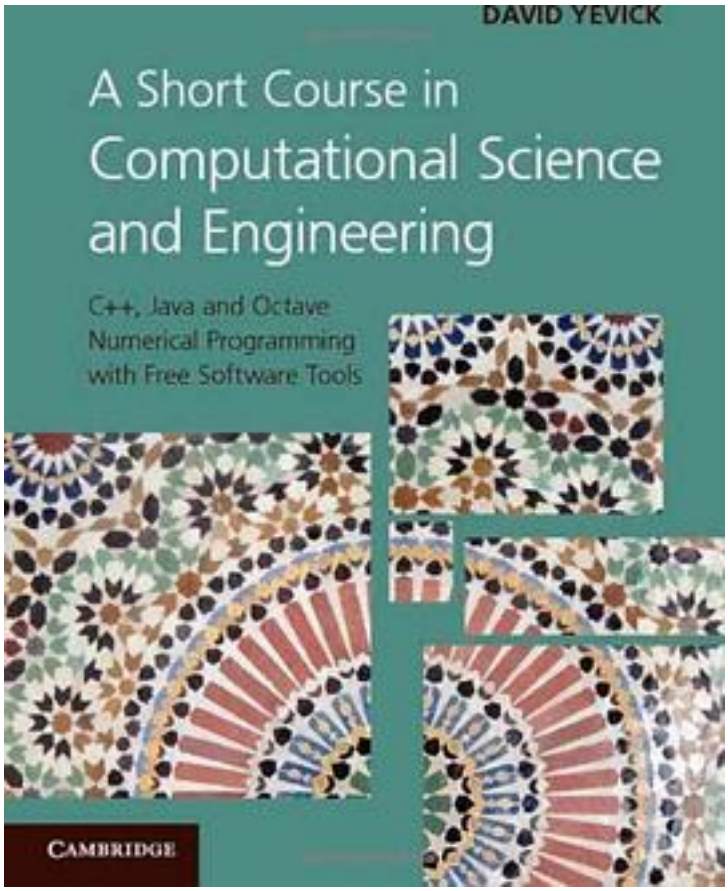
A Short Course in Computational Science and Engineering



A Short Course in Computational Science and Engineering_下载链接1_

著者:David Yevick

出版者:Cambridge University Press

出版时间:2012-7-9

装帧:Hardcover

isbn:9780521116817

Building on his highly successful textbook on C++, David Yevick provides a concise yet comprehensive one-stop course in three key programming languages, C++, Java and Octave (a freeware alternative to MATLAB). Employing only public-domain software,

this book presents a unique overview of numerical and programming techniques, including object-oriented programming, elementary and advanced topics in numerical analysis, physical system modelling, scientific graphics, software engineering and performance issues. Compact, transparent code in all three programming languages is applied to the fundamental equations of quantum mechanics, electromagnetics, mechanics and statistical mechanics. Uncommented versions of the code that can be immediately modified and adapted are provided online for the more involved programs. This compact, practical text is an invaluable introduction for students in all undergraduate- and graduate-level courses in the physical sciences or engineering that require numerical modelling, and also a key reference for instructors and scientific programmers.

作者介绍:

目录:

A Short Course in Computational Science and Engineering_下载链接1_

标签

计算数学

计算

数学

Programming

Octave

Math

评论

A Short Course in Computational Science and Engineering_下载链接1_

书评

A Short Course in Computational Science and Engineering_下载链接1_