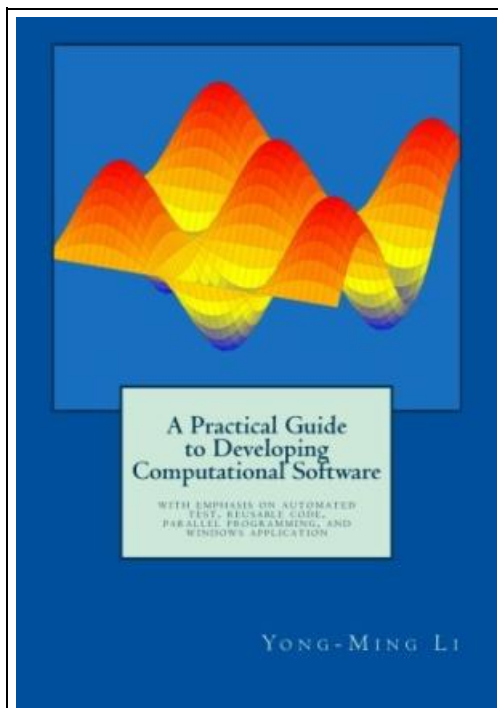


A Practical Guide to Developing Computational Software



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A PRACTICAL GUIDE TO DEVELOPING COMPUTATIONAL SOFTWARE



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Createspace Independent Publishing Platform, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.While recruiting college graduates, the author was surprised to find that many candidates who were working toward their master s degrees in computer science were unable to demonstrate the desired programming skills, though they all indicated in their resumes that they are proficient in C/C++ and objected oriented programming. It appears to the author that there is a gap between academic training and real world computing. As a veteran software developer with an interdisciplinary education background in engineering and applied mathematics, the author was determined to write a book for those who want to pursue a career in developing computational software for engineering and scientific applications. Readers will learn not only a disciplined way to implement numerical methods but also the software development process as a whole. In reading this book and completing all of the hands-on programming exercises, readers will gain an assured confidence and the sound programming skills needed to work in a software house or to develop their own computational software. Numerical methods in this book include evaluation of polynomial and series, root-finding, linear and nonlinear systems, inverse of a matrix, eigenvalues and eigenvector, integration, and least squares approximation. These methods are grouped and presented based on their implementation styles rather than their relevance. This book is organized as follows: Chapter 1 is a fast-paced brief introduction to C/C++ programming under Microsoft Visual Studio to familiarize readers with basic C/C++ syntax and debugging tools. Chapter 2 discusses floating-point notation, comparison, and arithmetic. Rudimentary understanding of floating-point is a pre-requisite for programmers. Failure to understand it is often the source of problems in numerical programming. Chapter 3 continues the study of advanced C/C++...



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