

Guide to scientific computing in C++

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Abstrak

This easy-to-read textbook/reference presents an essential guide to object-oriented C++ programming for scientific computing. With a practical focus on learning by example, the theory is supported by numerous exercises. Features, provides a specific focus on the application of C++ to scientific computing, including parallel computing using MPI, stresses the importance of a clear programming style to minimize the introduction of errors into code, presents a practical introduction to procedural programming in C++, covering variables, flow of control, input and output, pointers, functions, and reference variables, exhibits the efficacy of classes, highlighting the main features of object-orientation, examines more advanced C++ features, such as templates and exceptions.