

*Yevick (David)*

## **A First Course in Computational Physics and Object-Oriented Programming with C ++ (CD-rom included)**

Reference: Cyb-6313

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**Comment:** few black and white illustrations 1st edition, 2005 Contents, Chapitres : Contents, xiii, Text, 403 pages - 1. C++ programming basics : Introduction - Installing and running the Dev-C++ programming environment - Introduction to computer and software architecture - Fundamental concepts - Writing a first program - An introduction to object-oriented analysis - C++ object-oriented programming syntax - Control logic and iteration - Basic function properties - Arrayx and matrices - Input and output streams - 2. Numerical analysis : Numerical error analysis, derivation - Integration - Root-finding procedures - Differential equations - Linear algebra - 3. Advanced object-oriented programming : References - Pointers and dynamic memory allocation - Advanced memory management - The static keyword, multiple and virtual inheritance, templates and the STL library - Program optimization in C++ - 4. Scientific programming examples : Monte Carlo methods - Parabolic partial differential equation solvers - Appendices : Overview of Matlab - The Borland C++ compiler - The Linux Windows command-line C++ compiler and profiler - Calling Fortran programs from C++ - C++ coding standard - References, bibliography and index near fine copy, no markings

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