Hardy / Steeb

Classical and Quantum Computing

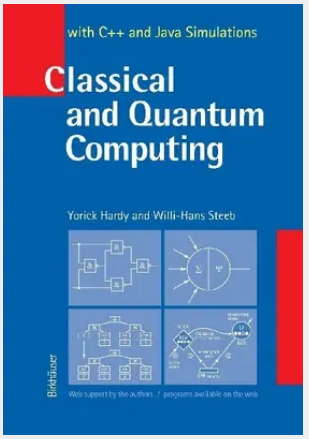
with C++ and Java Simulations

provides a self-contained, systematic and comprehensive introduction to all the subjects and techniques important in scientific computing. The style and presentation are readily accessible to undergraduates and graduates. A large number of examples, accompanied by complete C++ and Java code wherever possible, cover every topic.

Features and benefits:
- Comprehensive coverage of the theory with many examples
- Topics in classical computing include boolean algebra, gates, circuits, latches, error detection and correction, neural networks, Turing machines, cryptography, genetic algorithms
- For the first time, genetic expression programming is presented in a textbook
- Topics in quantum computing include mathematical foundations, quantum algorithms, quantum information theory, hardware used in quantum computing

This book serves as a textbook for courses in scientific computing and is also very suitable for self-study. Students, professionals and practitioners in computer science, applied mathematics and physics will benefit from using the book and the included software simulations.

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