



Applied Parallel Computing

Yuefan Deng

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Applied Parallel Computing Yuefan Deng

The book provides a practical guide to computational scientists and engineers to help advance their research by exploiting the superpower of supercomputers with many processors and complex networks. This book focuses on the design and analysis of basic parallel algorithms, the key components for composing larger packages for a wide range of applications.

Contents:

- Introduction
- Performance Metrics and Models
- Hardware Systems
- Software Systems
- Design of Algorithms
- Linear Algebra
- Differential Equations
- Fourier Transforms
- Optimization
- Applications

Readership: Graduate students, scientists and engineers in supercomputing, numerical analysis & computational mathematics and computational physics.

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