

《(大规模的科学计算)Large-scal》

图书基本信息

书名：《(大规模的科学计算)Large-scale scientific computing》

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内容概要

在线阅读本书

This book constitutes the thoroughly refereed post-proceedings of the Third International Conference on Large-Scale Scientific Computing, LSSC 2001, held in Sozopol, Bulgaria, in June 2001.

The 7 invited full papers and 45 selected revised papers were carefully reviewed for inclusion in the book. The papers are organized in topical sections on robust preconditioning algorithms, Monte-Carlo methods, advanced programming environments for scientific computing, large-scale computations in air pollution modeling, large-scale computations in mechanical engineering, and numerical methods for incompressible flow.

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书籍目录

I Invited Papers Optimizing Two-Level Preconditionings for the Conjugate Gradient Method On the Parallelization of the Sparse Grid Approach for Data Mining Java Communications for Large-Scale Parallel Computing Continuous Path Brownian Trajectories for Diffusion Monte Carlo via First- and Last-Passage Distributions Multilevel Monte Carlo Methods Iterative Aggregation/Disaggregation Methods for Computing Some Characteristics of Markov Chains Time-Integration Algorithms for the Computer Treatment of the Horizontal Advection in Air Pollution ModelsII Robust Preconditioning Algorithms MIC(0) Preconditioning of Rotated Trilinear FEM Elliptic Systems . Sobolev Space Preconditioning for Mixed Nonlinear Elliptic Boundary Value Problems On a Schur Complement Approach for Solving Two-Level Finite Element SystemsIII Monte Carlo Methods On-Line State Estimation of Maneuvering Objects by Sequential Monte Carlo Algorithm On the Dyadic Diaphony of the Sobol' Sequences An Improved Monte Carlo Algorithm for Elastic Electron Backscattering from Surfaces Statistical Algorithms for Simulation of Electron Quantum Kinetics in Semiconductors - Part I A Quasi-Monte Carlo Method for Integration with Improved Convergence Solving Systems of Linear Algebraic Equations Using Quasirandom Numbers Monte Carlo Analysis of the Small-Signal Response of Charge Carriers. Statistical Algorithms for Simulation of Electron Quantum Kinetics in Semiconductors - Part IIIIV Advanced Programming Environments for Scientific Computations IC2D: Interactive Control and Debugging of Distribution JaMake: A Java Compiler Environment Program Development Environment for OpenMP Programs on ccNUMA Architectures Global Computing Systems V Large-Scale Computations in Air Pollution Modelling VII Numerical Methods for Incompressible FlowVIII Contributed PapersAuthor Index

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