

<<Numerical Analysis a>>

图书基本信息

书名：<<Numerical Analysis and Its Applications 数分析和应用>>

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内容概要

This book constitutes the thoroughly refereed post-proceedings of the Third International Conference on Numerical Analysis and Its Applications, NAA 2004, held in Rousse, Bulgaria in June/July 2004. The 68 revised full papers presented together with 8 invited papers were carefully selected during two rounds of reviewing and improvement. All current aspects of numerical analysis are addressed. Among the application fields covered are computational sciences and engineering, chemistry, physics, economics, simulation, fluid dynamics, visualization, etc.

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书籍目录

Invited Papers Uniform Convergence of a Monotone Iterative Method for a Nonlinear Reaction-Diffusion Problem The Dynamics of Matrix Coupling with an Application to Krylov Methods High Precision Method for Calculating the Energy Values of the Hydrogen Atom in a Strong Magnetic Field Splitting Methods and Their Application to the Abstract Cauchy Problems Finite Difference Approximation of an Elliptic Interface Problem with Variable Coefficients The Finite Element Method for the Navier-Stokes Equations for a Viscous Heat Conducting Gas Augmented Strategies for Interface and Irregular Domain Problems Accuracy Estimates of Difference Schemes for Quasi-Linear Elliptic Equations with Variable Coefficients Taking into Account Boundary Effect

Research Papers Nodal Two-Dimensional Solitons in Nonlinear Parametric Resonance Supercloseness Between the Elliptic Projection and the Approximate Eigenfunction and Its Application to a Postprocessing of Finite Element Eigenvalue Problems One-Dimensional Patch-Recovery Finite Element Method for Fourth-Order Elliptic Problems Modelling of the Elastic Line for Twist Drill with Straight Shank Fixed in Three-Jaw Chuck On the Solvability of the Steady-State Rolling Problem A Quasi-Monte Carlo Method for an Elastic Electron Back-Scattering Problem Numerical Treatment of Fourth Order Singularly Perturbed Boundary Value Problems Selection Strategies for Set-Valued Runge-Kutta Methods Numerical Methods for the Landau-Lifshitz-Gilbert Equation The Continuous Analog of Newton Method for Nonlinear Data Approximation Prestressed Modal Analysis Using Finite Element Package ANSYS Computer Realization of the Operator Method for Solving of Differential Equations The Strong Stability of the Second-Order Operator-Differential EquationsAuthor Index

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