Weak Smoothness Conditions and the Newton's Method
Josephson Lattices Having an Optimal Sizes
Difference Scheme for Singularly Perturbed Reaction-Diffusion Problems with Concentrated Capacity
An Efficient Numerical Technique for Simulating 3D Technological Solidification Processes
Parallel Algorithms of Domain Decomposition to Solve the Navier-Stokes Equations
Mathematical modelling of impurity in grain boundary neighborhood in a dislocation wall force field (modified Fisher model)
Finite-difference Methods for Solving a Non-linear Chemical Oscillator Problem
On a Fitted Operator Technique for Singular Perturbation Equations
Some New Discretizations of Evolution Equations
A Constructive Representation of the Solution of a First Order Differential Equation with a Non-constant Operator Coefficient in Banach Spaces and Applications

Stability of Symmetrizable Difference Schemes
On Numerical Solution of 3D Navier-Stokes Equations in Vorticity-Vector Potential Formulation
Third Order Fractional Step Methods For Multidimensional Evolutionary Convection-Diffusion Problems
Simplified 3D Magnetospheric Magnetic Field
A Finite Difference Scheme for Computation of the Logarithmic Potential
Implicit Difference Methods for a Non-linear Heat Equation with Functional Dependence
Numerical Solution of a Bilateral Constrained Junction Problem
Difference Schemes on Nonuniform Grids for Multi-dimensional Equations
L[subscript 2]-Conservative Difference Schemes for the Korteweg-de Vries Equation

Composition Explicit Methods for Stiff Ordinary Differential Equations
Numerical Grid - Characteristic Gas dynamic Modeling of the solar wind flow around Comet
Finite Difference Schemes on Time-Adaptive Meshes for Problems with Generalized Solutions
Difference Schemes of Second Order of Approximation for Multidimensional Elliptic Equations in Arbitrary Area
Grid Approximation of Singularly Perturbed Parabolic Equations, with Convective Terms in the Case of Impermeable Walls
Approximations of the Solution and Diffusion Fluxes for Singularly Perturbed Parabolic Equations with Convective Terms on a Strip
Numerical Implementation of Soil Freezing Models
Numerical Algorithm for Studying Hydrodynamics in a Glass Melting Furnace
Numerical Study of Transport and Heat-Transfer Processes in a Glass Melting Furnace

Index

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.