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Nota di contenuto	Simulation of Flow in Fractured Poroelastic Media: a Comparison of Different Discretization Approaches A Transparent Boundary Condition for an Elastic Bottom in Underwater Acoustics Well- Posedness in H"older Spaces of Elliptic Differential and Difference Equations Operator Semigroups for Convergence Analysis The Power of Trefftz Approximations: Finite Difference, Boundary Difference and Discontinuous Galerkin Methods; Nonreflecting Conditions and Non-Asymptotic Homogenization On Extension of Asymptotic

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Systems w Method for Superconv Higher-ord Parabolic I Equations Methods for Markov Ch Communic Nicolson-F Schr"oding Schemes f Conditions Difference Hypersoni Flux and Ir Matrix-free Kutta Meth Permafros Dynamical Fabric use Method Mathemati Determina Equation v of Simultar Term and parallel im waves pro	n Principle for Time Periodic Reaction-Diffusion-Advection ith Boundary and Internal Layers The Finite Difference Boundary Value Problem with Singularity ergence of Some Linear and Quadratic Functionals for er Finite Elements Time Step for Numerically Solving Problems Recent Advances in Numerical Solution of HJB Arising in Option Pricing Applications of Numerical or Stochastic Controlled Switching Diffusions with A Hidden tation Resource Allocation Error Estimates of the Crank- Polylinear FEM with the discrete TBC for the Generalized ler Equation in an Unbounded Parallelepiped Difference or Delay Parabolic Equations with Periodic Boundary Some Results of FEM Schemes Analysis by Finite Method Application of Finite Difference TVD Methods in c Aerodynamics Finite Difference Equations for Neutron nportance Distribution in 3D Heterogeneous Reactor Iterative Processes for Implementation of Implicit Runge- nods Simulation of Technogenic and Climatic Influences in t Iterative Implicit Methods for Solving Nonlinear Systems: Application of the Levitron Modeling Textile d in Pest Control with a 3 Scale Domain Decomposition The Theory and Applications of the SMIF Method for Correct cal Modeling of the Incompressible Fluid Flows tion of the Time-dependent Thermal Conductivity in the Heat <i>v</i> th Spacewise Dependent Heat Capacity Inverse Problems heous Determination of the Time-dependent Right-hand Side the Coefficient in a Parabolic Equation Effectiveness of the plementation of the FEM for the problem of the surface bagation Splitting Scheme for Poroelasticity and sticity Problems.
Sommario/riassunto	constitutes the thoroughly refereed post-conference
This book	gs of the 6th International Conference on Finite Difference
proceeding	FDM 2014, held in Lozenetz, Bulgaria, in June 2014. The 36
Methods, I	papers were carefully reviewed and selected from 62
revised ful	ns. These papers together with 12 invited papers cover topics
submission	ite difference and combined finite difference methods as
such as fin	the element methods and their various applications in
well as fini	nemistry, biology and finance.