Record Nr. UNINA9910480999203321 Stochastic analysis and partial differential equations: emphasis year **Titolo** 2004-2005 on stochastic analysis and partial differential equations. Northwestern University, Evanston, Illinois / / Gui-Qiang Chen, Elton Hsu, Mark Pinsky, editors Pubbl/distr/stampa Providence, Rhode Island:,: American Mathematical Society,, [2007] ©2007 **ISBN** 0-8218-8108-6 0-8218-4059-2 Descrizione fisica 1 online resource (290 p.) Collana Contemporary mathematics, . 0271-4132 ; ; 429 Disciplina 519.2/2 Soggetti Stochastic analysis Partial differential operators Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references. ""Table of Contents""; ""Preface""; ""Construction of Suitable Weak Nota di contenuto Solutions of the Navier-Stokes Equations""; ""Error Estimates for Finite Difference-Quadrature Schemes for a Class of Nonlocal Bellman Equations with Variable Diffusion""; ""Recent Progress in the Stochastic Analysis of Turbulent Mixing""; ""Modified Keller-Segel System and Critical Mass for the Log Interaction Kernel""; ""Entropy Solutions to Conservation Laws with Discontinuous Fluxes via Microscopic Interacting Particle Systems""; ""Spectral Properties of Subordinate Processes in Domains"" ""Smoluchowski Navier-Stokes Systems""""Recent Developments in Stochastic Differential Equations", ""Heat Equations on Manifolds and Bismut's Formula""; ""On a Class of One-dimensional Markov Processes with Continuous Paths""; ""Prototype Hybrid Couplings of Macroscopic Deterministic Models and Microscopic Stochastic Lattice Dynamics"; ""General Relative Entropy in a Nonlinear McKendrick Model""; ""Pointwise Fourier Inversion in Analysis and Geometry""; ""Stochastic Analysis and the KdV Equation""; ""On Binary Fluid Mixtures""