Record Nr. UNINA9910788782603321 **Titolo** Particle systems, random media, and large deviations / / Richard Durrett, editor Pubbl/distr/stampa Providence, Rhode Island:,: American Mathematical Society,, [1985] ©1985 **ISBN** 0-8218-7626-0 0-8218-5042-3 Descrizione fisica 1 online resource (394 p.) Collana Contemporary mathematics, , 0271-4232;; volume 41 Disciplina 519.2 Soggetti Stochastic processes Dynamics of a particle Phase transformations (Statistical physics) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "Proceedings of the AMS-IMS-SIAM Joint Summer Research Conference in the Mathematical Sciences on Mathematics of Phase Transitions, held at Bowdoin College, June 24-30, 1984"--Title page verso. Nota di bibliografia Includes bibliographies. Nota di contenuto ""Table of Contents""; ""Introduction""; ""Inequalities for critical probabilities in percolation""; ""Random tubes as a model of pair correlations""; ""Large deviations for some infinite particle system occupation times""; ""Function-valued duals for measure-valued processes and applications""; ""Invariance principle for reversible Markov processes with application to diffusion in the percolation regime""; ""Stochastic growth models: Ten problems for the 80's (and 90's)"": ""Large deviations and statistical mechanics"": ""Nonergodic one-dimensional media and reliable computation"" ""Disordered Ising ferromagnets and percolation"""The critical behavior of a class of simple interacting systems -- a few answers and a lot of questions""; ""Phase transition for a class of Markov processes on (N) S""; ""Large deviations in subadditive processes and first-passage percolation""; ""1. Introduction""; ""2. Probability and Operations Research""; ""3. Subadditive Processes""; ""4. First-Passage Percolation""; ""5. Random Electrical Networks""; ""Reference"";

""Random media and selfdiffusion of interacting particles""

""Infinite chains and clusters in one dimensional directed and undirected percolation"""On the Shannon-Perez-Moy Theorem""; ""Hydrodynamics of a one-dimensional nearest neighbor model""; ""Decay rates of Green's functions for the Schrodinger operator""; ""Diffusions with random coefficients""; ""Disjoint occurrences of events: Results and conjectures""; ""Duality for directed site percolation""