

CONTENTS

Foreword	ix
Preface	xi
Stable Convergence and Asymptotic Capacity Measures	1
<i>J.R. Baxter and N.C. Jain</i>	
Effective Equation and Renormalization for a Nonlinear Wave Problem with a Random Source	15
<i>Luis L. Bonilla</i>	
The Spectrum of Backscatter for Pulse Reflection from a Randomly Stratified Medium	29
<i>R. Burridge, G. Papanicolaou, and B. White</i>	
Exercises for a Book on Random Potentials	45
<i>Rene Carmona</i>	
Travel-Time Problems for Waves in Random Media	67
<i>P.L. Chow</i>	
Elements of the Theory of Amorphous Semiconductors	89
<i>Morrel H. Cohen</i>	
Multidimensional RWRE with Subclassical Limiting Behavior	109
<i>Richard T. Durrett</i>	
Localization for a Random Discrete Wave Equation	121
<i>William G. Faris</i>	
Simulations and Global Optimization	129
<i>Basilis Gidas</i>	
Low Temperature Behavior in Random Ising Models	147
<i>John Z. Imbrie</i>	
Some Recent Results on Wave Equations, Path Integrals, and Semiclassical Approximations	163
<i>John R. Klauder</i>	
Effective Conductivities of Reciprocal Media	183
<i>Joseph B. Keller</i>	

Reflection from a Lossy, One-Dimensional Ocean Sediment Model	189
<i>Warner E. Kohler</i>	
Problems of One-Dimensional Random Schrödinger Operators	211
<i>Shinichi Kotami</i>	
Numerical Simulation of Ito Stochastic Differential Equations on Supercomputers	215
<i>W.P. Petersen</i>	
Lyapunov Exponent and Rotation Number of the Stochastic Harmonic Oscillator	229
<i>Mark A. Pinsky</i>	
Regularity of the Density of States for Stochastic Jacobi Matrices: A Review	244
<i>Barry Simon</i>	
Limit Theorems for Measure-Valued Diffusion Processes that Arise in Wave Propagation in a Randomly Inhomogenous Ocean	267
<i>Halil Mete Soner</i>	
Spectral Properties of Discrete and Continuous Random Schrödinger Operators: A Review	279
<i>Bernard Souillard</i>	
Dispersive Bulk Parameters for Coherent Propagation in Correlated Random Distributions	293
<i>Victor Twersky</i>	
Random Rays and Stochastic Caustics	311
<i>Benjamin S. White</i>	