



Diffusion: Formalism and Applications

Sushanta Dattagupta

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The book examines the two distinct paradigms of diffusion—physical and stochastic—introduced by Fourier and Laplace and later unified by Einstein in his groundbreaking work on Brownian motion. The author describes the role of diffusion in probability theory and stochastic calculus and discusses topics in materials science and metallurgy, such as defect-diffusion, radiation damage, and spinodal decomposition. In addition, he addresses the impact of translational/rotational diffusion on experimental data and covers reaction-diffusion equations in biology. Focusing on diffusion in the quantum domain, the book also investigates dissipative tunneling, Landau diamagnetism, coherence-to-decoherence transition, quantum information processes, and electron localization.

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