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| Sommario/riassunto | A Primer of Diffusion Problems A Primer of Diffusion Problems is a concise and lively introduction to diffusion theory in its many guises and to a variety of analytical and numerical methods for the solution of diffusion problems. It discusses the diffusion equation, the steady state, diffusion under external forces, time-dependent diffusion, and similarity, thus bridging mathematical and physical treatments of diffusion. Featured topics include a careful development of the oxidation theory of silicon, properties of the family of error functions, precipitation and phase transformations, a concise introduction to Laplace transforms, and nonlinear boundary conditions. Exercises are found throughout the text, and appendices treat rarely found advanced topics. |