



# Chaos, Scattering and Statistical Mechanics

*Pierre Gaspard*

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496 pages

Revue de presse

"...gives both the background and an overview of recent developments in nonequilibrium statistical mechanics, to which the author himself has made major contributions...an important reference book as well as an ideal tool for advanced students in the expanding and important field of statistical physics." Physics Today

"The book is nicely written...allows one to see some topics in dynamical systems with new eyes."

Mathematical Reviews Présentation de l'éditeur

This book describes advances in the application of chaos theory to classical scattering and nonequilibrium statistical mechanics generally, and to transport by deterministic diffusion in particular. The author presents the basic tools of dynamical systems theory, such as dynamical instability, topological analysis, periodic-orbit methods, Liouvillian dynamics, dynamical randomness and large-deviation formalism. These tools are applied to chaotic scattering and to transport in systems near equilibrium and maintained out of equilibrium. Chaotic Scattering is illustrated with disk scatterers and with examples of unimolecular chemical reactions and then generalized to transport in spatially extended systems. This book will be bought by researchers interested in chaos, dynamical systems, chaotic scattering, and statistical mechanics in theoretical, computational and mathematical physics and also in theoretical chemistry.

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