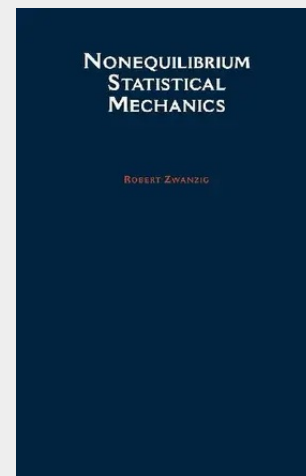


Nonequilibrium Statistical Mechanics

This book presents the main principles and methods of nonequilibrium statistical mechanics, a topic studied by both chemists and physicists. It is written for graduate students and scientists who already have knowledge of basic equilibrium statistical mechanics and who are interested in the more complex field of time-dependent nonequilibrium statistical mechanics.

This is a presentation of the main ideas and methods of modern nonequilibrium statistical mechanics. It is the perfect introduction for anyone in chemistry or physics who needs an update or background in this time-dependent field. Topics covered include fluctuation-dissipation theorem; linear response theory; time correlation functions, and projection operators. Theoretical models are illustrated by real-world examples and numerous applications such as chemical reaction rates and spectral line shapes are covered. The mathematical treatments are detailed and easily understandable and the appendices include useful mathematical methods like the Laplace transforms, Gaussian random variables and phenomenological transport equations.

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