

Nonequilibrium Thermodynamics

This fully updated and revised fifth edition of Nonequilibrium Thermodynamics: Transport and Rate Processes in Physical, Chemical, and Biological Systems emphasizes the unifying role of thermodynamics and their use in transport processes and chemical reactions in physical, chemical, and biological systems. This reorganized new edition provides thermodynamical approaches for foundational understanding of natural phenomena with multiscale chemical, physical, and biological systems, consisting of interactive processes leading to self-organized dissipative structures, fluctuations, and instabilities. This edition also emphasizes thermodynamic approaches, tools, and techniques, including energy analysis, process intensification, and artificial intelligence, for undertaking sustainable engineering. This book will be an excellent resource for graduate students and researchers in the fields of engineering, chemistry, physics, energy, biotechnology, and biology, as well as those whose work involves understanding the evolution of nonequilibrium systems, information theory, stochastic processes, and sustainable engineering. This may also be useful to professionals working in irreversibility, dissipative structures, process exergy analysis and thermoeconomics, digitalization in manufacturing, and data processing.

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