



# Nonequilibrium Thermodynamics: Transport and Rate Processes in Physical & Biological Systems

*Yasar Demirel*

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## **Nonequilibrium Thermodynamics: Transport and Rate Processes in Physical & Biological Systems**

Yasar Demirel

The book begins with a brief review of equilibrium systems and transport and rate processes, then covers the following areas: theory of nonequilibrium thermodynamics; dissipation function; entropy and exergy; analysis and case studies on using the second law of thermodynamics; economic impact of the nonequilibrium thermodynamics theory; analysis of transport and rate processes; membrane transport; dissipative structures and biological systems; and other thermodynamic approaches and extended nonequilibrium thermodynamics.

- Summarizes new applications of thermodynamics as tools for design and optimisation
- Covers second law and exergy analysis for sustainable development
- Promotes understanding of the coupled phenomena of natural processes

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