Modern Thermodynamics: From Heat Engines to Dissipative Structures

Dilip Kondepudi, Ilya Prigogine

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Modern Thermodynamics: From Heat Engines to Dissipative Structures, Second Edition presents a comprehensive introduction to 20th century thermodynamics that can be applied to both equilibrium and non-equilibrium systems, unifying what was traditionally divided into ‘thermodynamics’ and ‘kinetics’ into one theory of irreversible processes.

This comprehensive text, suitable for introductory as well as advanced courses on thermodynamics, has been widely used by chemists, physicists, engineers and geologists. Fully revised and expanded, this new edition includes the following updates and features:

- Includes a completely new chapter on Principles of Statistical Thermodynamics.
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- Covers new material on self-organization in non-equilibrium systems and the thermodynamics of small systems.
- Highlights a wide range of applications relevant to students across physical sciences and engineering courses.
- Introduces students to computational methods using updated Mathematica codes.
- Includes problem sets to help the reader understand and apply the principles introduced throughout the text.
- Solutions to exercises and supplementary lecture material provided online at http://sites.google.com/site/modernthermodynamics/.

Modern Thermodynamics: From Heat Engines to Dissipative Structures, Second Edition is an essential resource for undergraduate and graduate students taking a course in thermodynamics.

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