



## Thermodynamic Optimization of Complex Energy Systems (Nato Science Partnership Subseries: 3)

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# **Thermodynamic Optimization of Complex Energy Systems (Nato Science Partnership Subseries: 3)**

## **Thermodynamic Optimization of Complex Energy Systems (Nato Science Partnership Subseries: 3)**

A comprehensive assessment of the methodologies of thermodynamic optimization, exergy analysis and thermoeconomics, and their application to the design of efficient and environmentally sound energy systems. The chapters are organized in a sequence that begins with pure thermodynamics and progresses towards the blending of thermodynamics with other disciplines, such as heat transfer and cost accounting. Three methods of analysis stand out: entropy generation minimization, exergy (or availability) analysis, and thermoeconomics.

The book reviews current directions in a field that is both extremely important and intellectually alive. Additionally, new directions for research on thermodynamics and optimization are revealed.



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