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core concepts of mechanics and thermodynamics is a textbook designed for students and anyone
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temperature and the laws of thermodynamics the book emphasizes clear explanations and real

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provides all necessary equations tables and charts as well as self tests included chapters cover reaction propulsion systems and real gas effects written and organized in a manner that makes it accessible for self learning

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

the energy supply and demand system is of great importance for society from economic social and ecological viewpoints the last decade in particular has seen rapid changes in the world of energy systems and it is therefore now an important area for study academic research and professional work this textbook provides an introduction to energy analysis for those students

who want to specialise in this challenging field in comparison to other textbooks this book provides a balanced treatment of complete energy systems covering the demand side the supply side and the energy markets that connect these the emphasis is very much on presenting a range of tools and methodologies that will help students find their way in analysing real world problems in energy systems featuring learning objectives further readings and practical exercises in each chapter an introduction to energy analysis will be essential reading for upper level undergraduate and postgraduate students with a background in the natural sciences and engineering this book may also be useful for professionals dealing with energy issues as a first introduction into the field

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