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FUNDAMENTALS OF ENGINEERING THERMODYNAMICS

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**Michael J. Moran, Howard N.
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Kucuk,2014-06-17 This thorough and highly relevant volume examines exergy energy and the environment in the context of energy systems and applications and as a potential tool for design analysis optimization It further considers their role in minimizing and or eliminating environmental impacts and providing for sustainable development In this regard several key topics ranging from the basics of the thermodynamic concepts to advanced exergy analysis techniques in a wide range of applications are covered **Energy, Entropy and Engines** Sanjeev Chandra,2016-05-16 Textbook concisely introduces engineering thermodynamics covering concepts including energy entropy equilibrium and reversibility Novel explanation of entropy and the second law of thermodynamics Presents abstract ideas in an easy to understand manner Includes solved

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Sustainable Energy Technologies for Seawater Desalination Marc A Rosen, Aida Farsi, 2022-02-15 Sustainable Energy Technologies for Seawater Desalination provides comprehensive coverage of the use of

renewable energy technologies for sustainable freshwater production Included are design concepts for desalination and sustainable energy technologies based on thermodynamics heat transfer mass transfer and economics Key topics covered include desalination fundamentals and models desalination assessments using energy and exergy methods economics of desalination and the optimization of renewable energy driven desalination systems Illustrative examples and case studies are incorporated throughout the book to demonstrate how to apply the concepts covered in practical scenarios Following a coherent approach starting from fundamentals and basics and culminating with advanced systems and applications this book is relevant for advanced undergraduate and graduate students in engineering and non engineering programs Provides a comprehensive resource on sustainable freshwater production Describes how to analyze renewable energy based desalination using energy and exergy methods and economic assessments and how to carry out performance optimization Incorporates numerous examples and case studies to illustrate practical applications Presents the most up to date information with recent developments

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