



# EXERGY: Energy, Environment and Sustainable Development

By Ibrahim Dincer, Marc A. Rosen

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**EXERGY: Energy, Environment and Sustainable Development** By Ibrahim Dincer, Marc A. Rosen

This book deals with exergy and its applications to various energy systems and applications as a potential tool for design, analysis and optimization, and its role in minimizing and/or eliminating environmental impacts and providing 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 as outlined in the contents.

- Comprehensive coverage of exergy and its applications
- Connects exergy with three essential areas in terms of energy, environment and sustainable development
- Presents the most up-to-date information in the area with recent developments
- Provides a number of illustrative examples, practical applications, and case studies
- Easy to follow style, starting from the basics to the advanced systems

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### **Bibliography**

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### **Editorial Review**

#### **From the Back Cover**

Exergy, Energy, Environment and Sustainable Development is a research-oriented book and therefore includes practical features in a usable format often not included in other, solely academic textbooks.

Theory and analysis are emphasized throughout in this comprehensive book, reflecting new techniques, models and applications, including various materials with the most recent information. Coverage of the material is extensive and the amount of information and data presented is sufficient for exergy related courses or supplementary for energy, environment and sustainable development courses.

This book is essentially intended for use by advanced undergraduate or graduate students in several engineering and non-engineering disciplines and as an essential tool for practitioners.

It is strongly believed that it will be of interest to students, practitioners, as well as people and institutions who are interested in exergy and its applications to various systems and applications, as well as other areas. It is an invaluable and readable reference text and source for anyone who wishes to learn about more about exergy and its linkages with energy, environment and sustainable development.

#### **About the Author**

Ibrahim Dincer is the Editor-in-Chief of four journals, including the International Journal of Energy Research and International Journal of Exergy. He has authored numerous books and many journal articles, and is the recipient of several awards. He has most recently been recognized as one of 2014's Most Influential Scientific Minds in Engineering. This honour, presented by Thomson Reuters, is given to researchers who rank among the top 1% most cited for their subject field and year of publication, earning the mark of exceptional impact. Currently, he is a Professor with the Department of Automotive, Mechanical and Manufacturing Engineering of Faculty of Engineering and Applied Science at the University of Ontario Institute of Technology

Marc A. Rosen is the Editor-in-Chief of the International Journal of Energy and Environmental Engineering and the founding Editor-in-Chief of Sustainability. He has written numerous books and journal articles. Professor Rosen received the President's Award from the Canadian Society for Mechanical Engineering in 2012. Currently, he is a Professor at the University of Ontario Institute of Technology, where he served as founding Dean of the Faculty of Engineering and Applied Science

Marc A. Rosen is founding Dean of Engineering and Applied Science at the University of Ontario Institute of Technology in Oshawa, Canada. A Past-President of the Canadian Society for Mechanical Engineering, Dr. Rosen received an Award of Excellence in Research and Technology Development from the Ontario Ministry of Environment and Energy, and is a Fellow of the Engineering Institute of Canada, the American Society of Mechanical Engineers, the Canadian Society for Mechanical Engineering, and the International Energy Foundation. He has worked for Imatra Power Company in Finland, Argonne National Laboratory, and the Institute for Hydrogen Systems, near Toronto.

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**Elizabeth Daugherty:**

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**Richard Rodriguez:**

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