

Handbook of Hydrogen Energy (Mechanical and Aerospace Engineering Series)

From CRC Press

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Can hydrogen and electricity supply all of the world's energy needs? **Handbook of Hydrogen Energy** thoroughly explores the notion of a hydrogen economy and addresses this question. The handbook considers hydrogen and electricity as a permanent energy system and provides factual information based on science.

The text focuses on a large cross section of applications such as fuel cells and catalytic combustion of hydrogen. The book also includes information on inversion curves, physical and thermodynamic tables, and properties of storage materials, data on specific heats, and compressibility and temperature–entropy charts and more.

- Analyzes the principles of hydrogen energy production, storage, and utilization
- Examines electrolysis, thermolysis, photolysis, thermochemical cycles, and production from biomass and other hydrogen production methods
- Covers all modes of hydrogen storage: gaseous, liquid, slush, and metal hydride storage

Handbook of Hydrogen Energy serves as a resource for graduate students, as well as a reference for energy and environmental engineers and scientists.

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Editorial Review

Review

"This book provides an excellent overview of the hydrogen economy and a thorough and comprehensive presentation of hydrogen production and storage methods."

?Scott E. Grasman, Rochester Institute of Technology, New York, USA

About the Author

Dr. S.A. Sherif is a professor of mechanical and aerospace engineering at the University of Florida. He is editor-in-chief of the *ASME Journal of Thermal Science and Engineering Applications* (2014-2019), an emeritus editor of the *International Journal of Hydrogen Energy*, a subject editor of *Solar Energy*, an associate editor of the *ASME Journal of Heat Transfer* (2007-2011), and is on the editorial boards of 18 other thermal science journals. He is a Fellow of ASME and ASHRAE, an Associate Fellow of AIAA, a member of Commission B-1 of the International Institute of Refrigeration, and a member of the Advisory Board of Directors of the International Association for Hydrogen Energy. He has over 300 refereed publications, 21 book chapters, 100 technical reports, and two US patents.

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