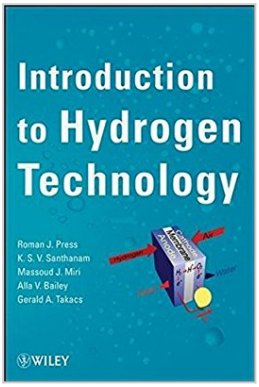

Introduction to Hydrogen Technology

By Roman J. Press, K. S. V. Santhanam, Massoud J. Miri, Alla V. Bailey, Gerald A. Takacs

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Introduction to Hydrogen Technology explains the basic chemistry that underlies promising, innovative new technologies such as hydrogen fuel cells. Incorporating information on the latest developments and current research on alternative energy sources, this book:

- Covers chemistry fundamentals relating to hydrogen technology, including reversible reactions and chemical equilibrium, acid-base chemistry, thermodynamics, reaction kinetics, electrochemistry, organic reactions involving hydrogen, polymer chemistry, photochemistry, and plasma chemistry
- Discusses various types of hydrogen fuel cells and diverse fuel cell applications
- Addresses the production techniques and the infrastructure necessary to support hydrogen-based energy sources

This is a hands-on resource for scientists and researchers working with hydrogen-based technologies and an excellent reference for students in engineering, science, environmental science, and applied science and technology. This book also will be useful for the general public interested in sustainable energy.

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Editorial Review

Review
"I am pleased to recommend this book as a hands-on resource for scientists and researchers working with the emerging hydrogen-based technologies. It can also serve as an excellent reference for students in chemistry, chemical engineering, engineering, basic science, environmental science, and applied science and technology as well as for the general public interested in sustainable energy. It should also be useful to professors in all branches of chemistry and chemistry engineering. In view of the importance of hydrogen technology in solving our society's energy and environmental crisis, it should also prove helpful to science journalists and should find a place in education and public libraries." (*Journal of Chemical Education*, May 2009)

From the Back Cover
Hydrogen-based technologies for sustainable energy sources

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About the Author

The authors of this book are members of the Rochester Institute of Technology Renewable Energy Enterprise (RITree). It is their hope that this book will spur new developments in hydrogen-based energy sources for today's world—and tomorrow's. ROMAN J. PRESS is a former distinguished researcher at the Rochester Institute of Technology (RIT), where his work involved hydrogen applications and the use of renewable energy. He holds twenty-six patents and has authored numerous publications. His industrial experience includes work at General Motors, Delphi, and Quantum Technologies. K. S. V. SANTHANAM is a Professor in RIT's Department of Chemistry and the Director of the Center for Materials Science and Engineering, a member of RIT's Task Force on Nanotechnology, and an affiliated faculty member of the Golisano Institute for Sustainability. He is an elected corresponding member of Sachsische Akademie der Wissenschaften zu Leipzig, and a member of the American Chemical Society, Materials Research Society, and the Electrochemical Society. MASSOUD J. MIRI is a Professor in the Department of Chemistry and the Center for Materials Science and Engineering at RIT. He is a member of the American Chemical Society (including its Division of Polymer Chemistry, POLYED Committee, and Division of Polymeric Materials Science and Engineering), and a member of the Sigma Xi Research Society. ALLA V. BAILEY is a faculty member in the Department of Chemistry at RIT; formerly the principal researcher at Plastpolymer company

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