



# Fuel Cell Engines

*Matthew M. Mench*

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## **Fuel Cell Engines** Matthew M. Mench

The first fuel cell theory and application resource written for students and professionals.

With the field of fuel cells growing at a rapid pace, there is a powerful need for a single guide to the myriad disciplines related to the technology. *Fuel Cell Engines* provides a comprehensive and detailed introduction to the fundamental principles of fuel cell science so that a reader—whether professional or student—can gain a timeless understanding of the fundamentals that will remain relevant and useful even as the specific applications, materials, and designs change.

Offering an unbiased introduction to their fundamental concepts and applications, author Matthew Mench begins with a global perspective of the field and the practical significance of fuel cells and potential applications. He then takes you deeper into the fundamental principles, discussing:

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Basic Electrochemical Principles

\*

The Thermodynamics of Fuel Cells

\*

Performance Characterization of Fuel Cells

\*

Multiphase Heat and Mass Transport in Low-Temperature Fuel Cells

\*

The Polymer Electrolyte Fuel Cell

\*

Other Fuel Cells including Solid Oxide, Molten Carbonate, Phosphoric Acid, and Alkaline Based Systems

\*

Methods of Hydrogen Storage, Generation, and Delivery

\*

Experimental Diagnostics and Diagnosis of Fuel Cells

A rich assortment of tools assists your mastery of the elements, including:

\*

Many solved examples that integrate the subtopics covered in each chapter

\*

Chapter-end case studies that expand on the topics covered and go beyond the textbook into external

resources available

\*

Chapter-ending homework problems and exercises that are supported by a solutions manual

\*

An associated Web site that provides teaching material for instructors based on the course structure developed at Penn State since 2002

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