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A complete, up-to-date, introductory guide to fuel cell technology and application. Fuel Cell Fundamentals provides a thorough introduction to the principles and practicalities behind fuel cell technology. Beginning with the underlying concepts, the discussion explores fuel cell thermodynamics, kinetics, transport, and

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Fuel Cell Fundamentals | Wiley Online Books

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Preface of Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design, Second Edition book: The development of internal combustion engine automobiles is one of the greatest achievements of modern technology. However, the highly developed automotive industry and the increasingly large number of automobiles in use around the world are causing serious problems for the environment and hydrocarbon resources.

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In Chapter 12, different fuel cell systems are described, mainly focusing on their operation principles and characteristics, technologies, and fuel sup-plies. Vehicular applications of fuel cells are also explained. In Chapter 13, the systematic design of fuel cell hybrid drive trains is introduced.

Fundamentals, Theory, and Design

In addition to covering the basic principles of fuel cells and hydrogen technologies, the book examines the principles and methods to develop and test fuel cells, the evaluation of the performance and lifetime of fuel cells and the concepts of hydrogen production.

Fuel Cells and Hydrogen | ScienceDirect

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design, Second Edition (Power Electronics and Applications Series): Amazon.co.uk: Ehsani, Mehrdad, Gao, Yimin, Emadi, Ali: 9781420053982: Books. 2 used & new from £ 113.91. See All Buying Options.

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A complete, up-to-date, introductory guide to fuel cell technology and application. Fuel Cell Fundamentals provides a thorough introduction to the principles and practicalities behind fuel cell...

Fuel Cell Fundamentals - Ryan O'Hayre, Suk-Won Cha ...

The book is divided in two parts: The first (and largest part), "Fuel Cell Principles" focuses on basic fuel cell physics. The second part: "Fuel Cell Technology" provides a brief discussion of the practical applications of fuel cell technology. Fuel Cell Fundamentals provides examples, problems, and pedagogy for classroom use.

Fuel Cell Fundamentals by Ryan O'Hayre - Goodreads

High-temperature Solid Oxide Fuel Cells, Second Edition, explores the growing interest in fuel cells as a sustainable source of energy. The text brings the topic of green energy front and center, illustrating the need for new books that provide comprehensive and practical information on specific types of fuel cells and their applications.

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