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fuel cell thermodynamics, kinetics, transport, and modeling before moving into the application side with guidance on system types and design, performance, costs, and environmental impact.

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Summary. Fuel Cell Fundamentals is an introductory-

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level textbook covering the basic science and engineering behind fuel cell technology. Focusing on the fundamentals, it provides straightforward descriptions of how fuel cells work, why they offer the potential for high efficiency, and how their unique advantages can best be used. Emphasis is placed on the founding scientific principles that govern fuel cell operations.

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Updating its successful first edition, Fuel Cell Fundamentals, Second Edition gives advanced undergraduate and beginning level graduate students an important introduction to the basic science and engineering behind fuel cell technology.

Ryan O'Hayre - Metallurgical and Materials Engineering

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In Chapter 12, different fuel cell systems are described, mainly focusing on their operation principles and characteristics, technologies, and fuel

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sup-plies. Vehicular applications of fuel cells are also explained. In Chapter 13, the systematic design of fuel cell hybrid drive trains is introduced.

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Problem 1.8 (20 points) You can see the benefits in a fuel cell of the independent scaling of the fuel reservoir and the fuel cell stack. Therefore, for this problem, you may compute the volume of the stack and the reservoir independently. For the stack, you need to supply 30 kW with a fuel cell that supplies power at 1 kW/L and 500 W/kg.

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Full Title: Fuel Cell Fundamentals; Edition: 2nd edition; ISBN-13: 978-0470258439; Format: Hardback; Publisher: Wiley (1/9/2009) Copyright: 2009; Dimensions: 7.4 x 9.2 x 1.2 inches; Weight: 2.55lbs

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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

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around the world are causing serious problems for the environment and hydrocarbon resources.

Bing: Fuel Cell Fundamentals 2nd Edition

Now in its second edition, this book features fully revised coverage of the modeling of fuel cells and small fuel cells for portable devices, and all-new chapters on the structural and wetting properties of fuel cell components, experimental methods for fuel cell stacks, and nonconventional design principles for fuel cells, bringing the content fully up to date.

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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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