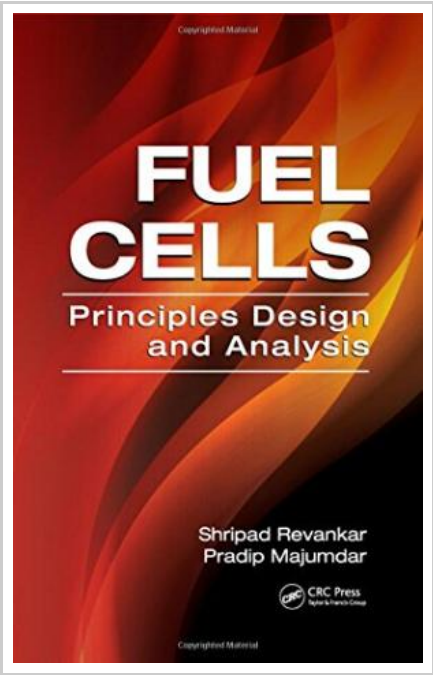

Fuel Cells: Principles, Design, and Analysis (Hardback)

By Shripad T. Revankar, Pradip Majumdar

Taylor Francis Inc, United States, 2014. Hardback. Book Condition: New. 236 x 160 mm. Language: English . Brand New Book. Fuel Cells: Principles, Design, and Analysis considers the latest advances in fuel cell system development and deployment, and was written with engineering and science students in mind. This book provides readers with the fundamentals of fuel cell operation and design, and incorporates techniques and methods designed to analyze different fuel cell systems. It builds on three main themes: basic principles, analysis, and design. The section on basic principles contains background information on fuel cells, including fundamental principles such as electrochemistry, thermodynamics, and kinetics of fuel cell reactions as well as mass and heat transfer in fuel cells. The section on design explores important characteristics associated with various fuel cell components, electrodes, electrocatalysts, and electrolytes, while the section on analysis examines phenomena characterization and modeling both at the component and system levels. * Includes objectives and a summary in each chapter * Presents examples and problems demonstrating theory/principle applications * Provides case studies on fuel cell analysis * Contains mathematical methods including numerical methods and MATLAB(R) Simulink(R) techniques * Offers references and material for further reading Fuel Cells: Principles, Design, and...

Reviews

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