



Designing and Building Fuel Cells

Colleen Spiegel

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Acquire an All-in-One Toolkit for Expertly Designing, Modeling, and Constructing High-Performance Fuel Cells

Designing and Building Fuel Cells equips you with a hands-on guide for the design, modeling, and construction of fuel cells that perform as well or better than some of the best fuel cells on the market today.

Filled with over 120 illustrations and schematics of fuel cells and components, this “one-stop” guide covers fuel cell applications...fuels and the hydrogen economy...fuel cell chemistry, thermodynamics, and electrochemistry...fuel cell modeling, materials, and system design...fuel types, delivery, and processing...fuel cell operating conditions...fuel cell characterization...and much more. Authoritative and practical, *Designing and Building Fuel Cells* features:

- Complete information on stack design
- The latest fuel cell modeling techniques
- Guidance on cutting-edge materials and components
- Expert accounts of fuel cell types, processing, and optimization
- A step-by-step example for constructing a fuel cell

Inside This State-of-the-Art Fuel Cell Sourcebook

Introduction • Fuel Cell Applications • Fuel Cells and the Hydrogen Economy • Basic Fuel Cell Chemistry and Thermodynamics • Fuel Cell Electrochemistry • Fuel Cell Charge Transport • Fuel Cell Mass Transport • Fuel Cell Heat Transport • Fuel Cell Modeling • Fuel Cell Materials • Fuel Cell Stack Components and Materials • Fuel Cell Stack Design • Fuel Cell System Design • Fuel Types, Delivery, and Processing • Fuel Cell Operating Conditions • Fuel Cell Characterization

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