

Table of Contents

- Chapter 1 An Introduction to Fuel Cells
- Chapter 2 Fuel Cells and the Hydrogen Economy
- Chapter 3 Fuel Cells Types
- Chapter 4 Basic Fuel Cell Chemistry and Thermodynamics
- Chapter 5 Fuel Cell Applications
- Chapter 6 Basic Fuel Cell Thermodynamics
- Chapter 7 Fuel Cell Charge Transport
- Chapter 8 Fuel Cell Mass Transport
- Chapter 9 Heat Transfer
- Chapter 10 Fuel Cell Modeling
- Chapter 11 Fuel Cell Materials
- Chapter 12 Fuel Cell Stack Components and Materials
- Chapter 13 Fuel Cell Stack Design
- Chapter 14 Fuel Cell System Design
- Chapter 15 Fuel Types, Delivery, and Processing
- Chapter 16 Fuel Cell Operating Conditions
- Chapter 17 Fuel Cell Characterization
- Appendix A Useful Constants and Conversions
- Appendix B Thermodynamic Properties of Selected Substances
- Appendix C Molecular Weight, Gas Constant and Specific Heat for Selected Substances
- Appendix D Gas Specific Heats at Various Temperatures
- Appendix E Specific Heat for Saturated Liquid Water at Various Temperatures
- Appendix F Thermodynamic Data for Selected Fuel Cell Reactants at Various Temperatures
- Appendix G Binary Diffusion Coefficients for Selected Fuel Cell Substances
- Appendix H Product Design Specifications
- Appendix I Fuel Cell Design Requirements and Parameters
- Index