



# Fuel Cell Systems Explained

*James Larminie, Andrew Dicks*

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## **Fuel Cell Systems Explained** James Larminie, Andrew Dicks

Provides a clear, accessible introduction to fuel cell technology by setting out the working methods, behaviour, limitations, features and the potential of all major fuel cell types currently in commercial development. Fuel cells are emerging as the practical and versatile solution to the problem of alternative power sources and this book provides a new understanding of fuel cell technology. Assuming no prior knowledge of fuel cell chemistry, this reference comprehensively brings together all of the key topics encompassed by this diverse field. Features include: An overview of fuel cell technology, explaining the operation and fundamental thermodynamics of fuel cells with a clear and well illustrated account of cell construction. Detailed accounts of the problems faced by designers of all major fuel cell types currently in commercial development including water management, cooling, air supply, construction methods, operating pressure and reactant composition. Up to date coverage of Proton Exchange Membrane (PEM) cells. Description of the main devices for moving, compressing and expanding the gases in fuel cell systems, including relevant formulas. Coverage of the complete fuel cell power system including compressors, turbines, fuel processors, hydrogen storage devices, inverters and motors. Clear treatment of the electrical and electronic sub-systems, including regulators, grid inter-ties, electric motors and hybrid fuel cell/battery systems. An essential guide to the principles, design and application of fuel cell systems, this timely book will prove invaluable to those working and studying within this increasingly important field. Practising electrical, automotive, power and control engineers, undergraduates and graduate students in the areas of thermodynamics, electrical power systems and automotive engineering will find their knowledge and understanding of this developing area greatly enhanced by the Authors' informed and easy-to-read style.

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