



Fuel cell technology : reaching towards commercialization /

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Monografía

The world's ever-growing demand for power has created a need for new efficient and sustainable sources of energy and electricity. In recent years, fuel cells have become a highly-promising potential source of power for military, commercial and industrial uses. Fuel Cell Technology: Reaching Towards Commercialization provides a one-volume survey of state-of-the art research in fuel cells, with in-depth coverage of the two types of fuel cell most likely to become commercialized - the high-temperature solid oxide fuel cell (SOFC) and the low-temperature polymer electrolyte membrane fuel cell (PEM). All aspects of SOFC and PEM technology are covered, including: materials selection and analysis for fuel cells; fuel cell stack design and development; modeling and control of processes and systems; and, reforming technology. The book also signposts the emerging field of microbial fuel cells, the main alternative to SOFCs and PEMs. Fuel Cell Technology: Reaching Towards Commercialization is an essential reference for researchers, academics and industrialists interested in up-to-date information on fuel cell development. The Engineering Materials and Processes series focuses on all forms of materials and the processes used to synthesise and formulate them as they relate to the various engineering disciplines. The series deals with a diverse range of materials: ceramics, metals (ferrous and non-ferrous), semiconductors, composites, polymers biomimetics, etc. Each monograph in the series is written by a specialist and demonstrates how enhancements in materials and the processes associated with them can improve performance in the field of engineering in which they are used

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