

# *“Fuel Cell Science and Engineering: Materials, Processes, Systems and Technology”*

Edited by Detlef Stolten and Bernd Emonts (Forschungszentrum Jülich GmbH, Germany), Wiley-VCH Verlag GmbH & Co KGaA, Weinheim, Germany, 2012, 2 volume set, 1268 pages, ISBN: 978-3-527-33012-6, £270.00, €324.00, US\$330.00

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## **Introduction**

“Fuel Cell Science and Engineering: Materials, Processes, Systems and Technology” is a very comprehensive review of the current status of this technology. The book's editors, Detlef Stolten and Bernd Emonts of the Institute of Energy and Climate Research at Forschungszentrum Jülich GmbH, Germany, have a long history of working in the field of fuel cell research. Professor Detlef Stolten is the Director of the Institute of Energy Research – Fuel Cells at the Research Centre Jülich, Germany, and received his doctorate from the University of Technology at Clausthal, Germany. He served many years as a Research Scientist in the laboratories of Robert Bosch and Daimler Benz/Dornier. Professor Stolten's research focuses on electrochemical energy engineering including electrochemistry and energy process engineering of electrolysis, solid oxide fuel cell (SOFC) and polymer electrolyte fuel cell (PEFC) systems. Bernd Emonts is the Deputy Director of the Institute of Energy Research at the Jülich Research Centre, Germany. He was awarded his PhD on the fundamentals of mechanical engineering from RWTH Aachen University, Germany, in 1989. Emonts has been involved in extensive research and development projects in the areas of catalytic combustion and energy systems with low-temperature fuel cells and has published extensively in the field of fuel cells.

The present book is divided into eight sections that cover virtually all aspects of the current research effort in fuel cells, beginning with reviews of the various fuel cell technologies themselves, followed by sections on materials and manufacturing issues, diagnostics, quality assurance, modelling and simulation, balance of plant design and components, system demonstrations and market introduction, and finally knowledge distribution and public awareness.

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