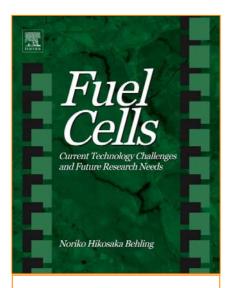


Fuel Cells

Current Technology Challenges and Future Research Needs Noriko Hikosaka Behling

Unrivaled history and assessment of global fuel cell company activities and government policies and programs.



ISBN: 978-0-444-56325-5 **PUB DATE:** October 2012

LIST PRICE:

£155.00/€180.00/\$249.95

FORMAT: Hardback
PAGES: c. 690
AUDIENCE

Students, scientists, and engineers at universities, graduate schools, research institutions, and corporate and government officials who are engaged in fuel cell R&D worldwide. Top government policymakers worldwide, Corporate executives in fuel cell related industries and researchers working at fuel cell related industries worldwide.

Fuel Cells, Current Technology Challenges and Future Research Needs provides a clear and unbiased history of fuel cell programs at 180 companies and labs worldwide. It details past and present fuel cell government policies, programs, and budgets and private sector investment. Using a wide range of metrics, it assesses strengths and weaknesses of fuel cell programs in China, Europe, Japan, South Korea, and the United States, including an extensive compilation of state-of-the-art SOFC technologies and in-depth analysis of PEMFC market potential for transport, stationary, and emerging niche applications.

Reviewers have uniformly praised her work:

"You have done a monumental job of capturing the fuel cell history worldwide." - Subhash C. Singhal, Ph.D., Pacific Northwest National Laboratory.

"This effort is monumental and erudite. While presenting the analysis of fuel cell technology that had to be done, the book lays out a research plan that commands attention. It is a tour de force. No other fuel cell book compares in depth and scope." – Mark C. Williams, Ph.D., Director of Research, URS Corporation.

"This book is a valuable detailed history of fuel cell developments worldwide and proposes policies and important management approaches to be adopted. I hope managers in the energy industry and in governments will read this book to learn how to manage fuel cell developments over the long term with enthusiasm and prompt decisions." — Harumi Yokokawa, Dr. FECS, Emeritus Researcher, Project Leader, "Durability/Reliability of SOFC Stacks/System," National Institute of advanced Industrial Science and Technology (AIST).

"A knowledgeable, exhaustive and at the same time relentless review of world fuel cell R&D and the way governments fail to support it properly...essential reading and valuable reference in fuel cell history with a clear vision of how the technology should be further developed to market entry." – Prof.Dr. Robert Steinberger-Wilckens, Chair Hydrogen and Fuel Cell Research, College of Engineering and Physical Sciences, University of Birmingham.

"The book gives a remarkable overview of the fuel cell developments and their history worldwide. It is excellently researched and gives high value information even for insiders." – Prof. Dr. Wolfgang Winkler, Director of Institute for Energy Systems and Fuel Cell Technology, Hamburg University of Applied Sciences.

Buy online at **store.elsevier.com/9780444563255**Use code **PRT2514** at checkout to gain 25% discount **Or, access via ScienceDirect.com**