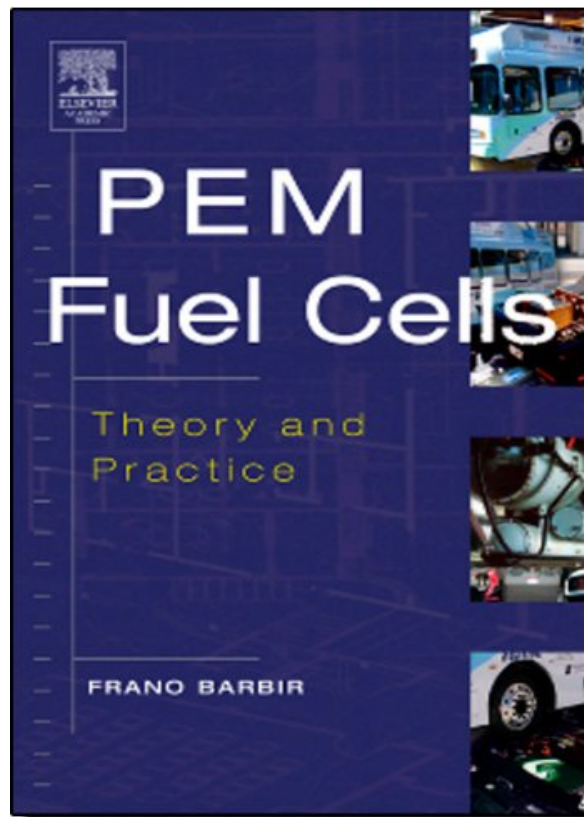
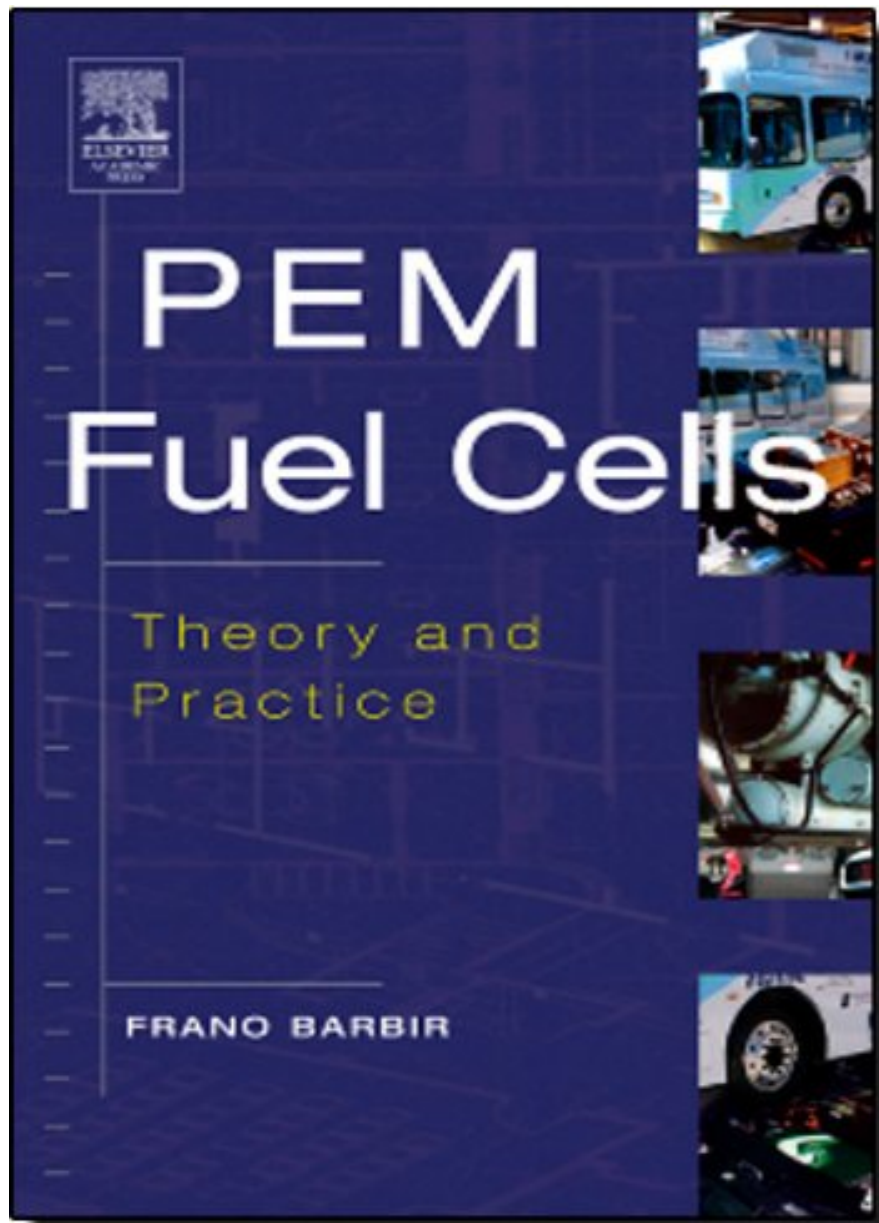


**PEM FUEL CELLS: THEORY AND
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"Franco Barbir brings considerable expertise to the subject of PEM fuel cells...of the numerous books on fuel cells I have seen come through our lab in the past few years, I find this on the most useful." - The Hydrogen & Fuel Cell Letter

From the Back Cover

PEM Fuel Cells "are the primary candidates for light-duty vehicles, for buildings, and potentially for much smaller applications such as replacements for rechargeable batteries in video cameras." United States Department of Energy

- First authoritative book on theory and practice of PEM fuel cells
- Contains hundreds of original illustrations and real-life engineering examples
- Practical teaching tool for engineering students.

Demand for alternative energy sources is on the rise and fuel cells are pulling ahead as the leading technology. Proton Exchange Membrane (PEM) fuel cells in particular are experiencing an upsurge because of their high power density and ability to vary output quickly to meet shifts in power demand. Until now, there has been little written about this important technology. PEM Fuel Cells: Theory and Practice lays the groundwork for fuel cell engineers, technicians and students. Through the use of real life examples on the various aspects of fuel cell engineering, this book covers the fundamental aspects of fuel cell design, electrochemistry of the technology, heat and mass transport, system design and applications. From fuel cell performance to sizing the system components, this is the most comprehensive teaching tool available.

About the Author

By Dr. Frano Barbir

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Fuel cells are electrochemical energy conversion devices that convert hydrogen and oxygen into water, producing electricity and heat in the process and providing fuel efficiency and reductions in pollutants. Demand for this technology is growing rapidly. Fuel cells are being commercialized for stationary and portable electricity generation, and as a replacement for internal combustion engines in automobiles. Proton Exchange Membrane (PEM) fuel cells in particular are experiencing an upsurge. They have high power density and can vary their output quickly to meet shifts in power demand.

Until now, there has been little written about this important technology. This book lays the groundwork for fuel cell engineers, technicians and students. It covers the fundamental aspects of fuel cell design, electrochemistry of the technology, heat and mass transport, system design and applications to bring this technology to professionals at all levels.

- * Comprehensive guide for engineers, researchers and policymakers
- * Covers theory and practice of PEM fuel cells
- * Contains hundreds of original illustrations and real-life engineering examples

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About the Author

By Dr. Frano Barbir

Most helpful customer reviews

5 of 5 people found the following review helpful.

A fuel cell designer MUST HAVE!

By Jeremy Dabel

This is a great read and it covers all the basics of PEM fuel cells. I work at a fuel cell company designing fuel cells and systems. This book should be owned by every fuel cell designer. It covers both fundamentals and practical aspects of fuel cells quite well. This also would be great for students looking to learn the fundamentals of PEM fuel cells as I used it countless times when working on my thesis. This book is worth every penny.

1 of 1 people found the following review helpful.

Good Coverage of Material

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This is a good book about the concepts behind PEM fuel cells, but it doesn't do that great of a job on explaining a lot of the basic requirements of fuel cell design. It's excellent for PEM coverage, but IMO it assumes that the reader has a thorough understanding of basic FC knowledge.

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