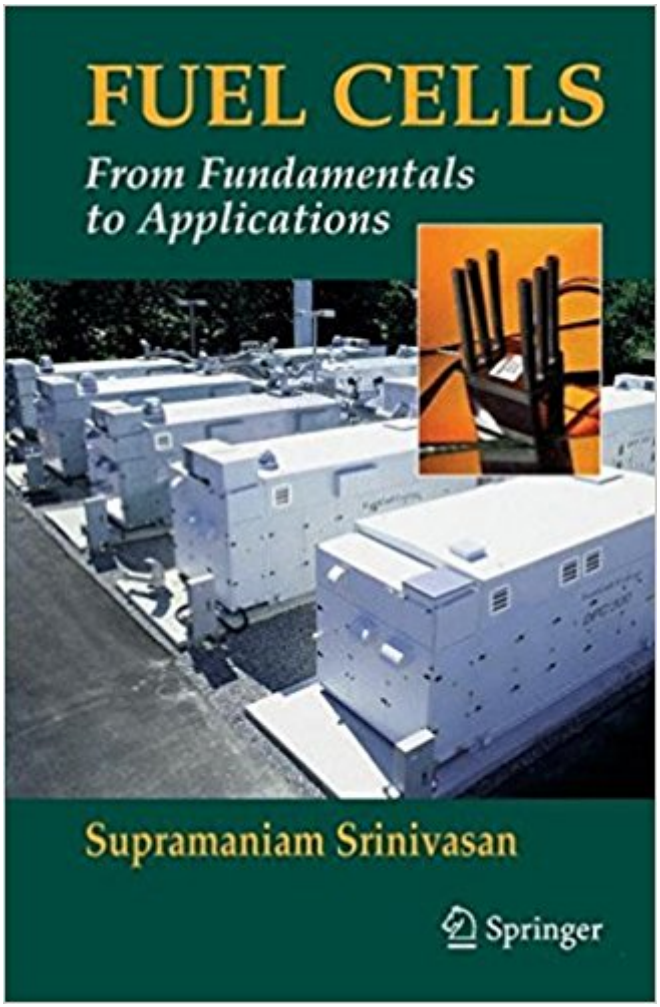
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Fuel Cells: From Fundamentals To Applications



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Synopsis

This concise sourcebook of the electrochemical, engineering and economic principles involved in the development and commercialization of fuel cells offers a thorough review of applications and techno-economic assessment of fuel cell technologies, plus in-depth discussion of conventional and novel approaches for generating energy. Parts I and II explain basic and applied electrochemistry relevant to an understanding of fuel cells. Part III covers engineering and technology aspects. The book is useful for undergraduate and graduate students and scientists interested in fuel cells. Unlike any other current book on fuel cells, each chapter includes problems based on the discussions in the text.

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Fuel Cells: Fundamentals to Applications is a concise source of the basic electrochemical principles and engineering aspects involved in the development and commercialization of fuel cells. It

describes the applications and techno-economic assessment of fuel cell technologies along with an in-depth discussion of conventional and novel approaches pursued for generating energy. This book is divided into four parts. Parts I and II explain basic and applied electrochemistry relevant to an understanding of fuel cells. Part III covers engineering and technology aspects and Part IV, applications and economics. The first part covers, in detail, the electrode kinetics and electrocatalysis of charge-transfer reactions, and leading electrochemical technologies with focus on relevance to fuel cells. The second part addresses the governing principles of fuel cells, electrocatalysis of fuel cell reactions and experimental techniques pertinent to fuel cell research and development. The third part is devoted to modeling of fuel cell systems and a thorough discussion of fuels, fuel processing and fuel storage, transmission, and distribution. The final part deals with the status of the fuel cell technologies, their applications and economics. This book is useful for undergraduate and graduate students and scientists who are interested in fuel cells. It will also serve as an excellent teaching tool. Unlike any other book written on fuel cells, each chapter contains problems based on the discussions in the text.

There really are not as many calculations covering how fuel cells work as I would have wanted. It does work as an overview of the subject. Many of the graphs and graphics are poor quality, very fuzzy. You can get a general idea on the subject of fuel cells. Don’t expect aything too in depth or detailed problem examples.

This is an outstanding buy. Excelent price, packing, and book conditions. Went over my expectatives. I strongly recommend this seller.

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