

1. Record Nr.	UNINA990000578570403321
Autore	Green, Albert Edward
Titolo	LARGE ELASTIC DEFORMATION / GREEN A.E. - ADKINS J.E.
Pubbl/distr/stampa	Oxford : At the clarendon press, 1960
Locazione	DINSC
Collocazione	07 C-1
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910819818703321
Titolo	Proton exchange membrane fuel cells modeling // edited by Fei Gao, Benjamin Blunier, Abdellatif Miraoui
Pubbl/distr/stampa	London, : ISTE Hoboken, N.J., : Wiley, c2012
ISBN	9781118562079 1118562070 9781118566084 1118566084 9781118566374 1118566378
Edizione	[1st ed.]
Descrizione fisica	1 online resource (257 p.)
Collana	ISTE
Altri autori (Persone)	GaoFei <1983-> BlunierBenjamin MiraouiAbdellatif
Disciplina	621.31/2429
Soggetti	Proton exchange membrane fuel cells - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [227]-233) and index.

Nota di contenuto

General introduction -- PEMFC structure -- Why model a fuel cell? -- How can a fuel cell be modeled? -- Literature models synthesis -- Structural and functional approaches -- Stack-level model -- Cell-level model (membrane-electrode assembly, MEA) -- Individual layer level modeling -- Finite element and finite volume approach -- Detailed nexa proton exchange membrane fuel cell stack modeling -- Model experimental validation.

Sommario/riassunto

The fuel cell is a potential candidate for energy storage and conversion in our future energy mix. It is able to directly convert the chemical energy stored in fuel (e.g. hydrogen) into electricity, without undergoing different intermediary conversion steps. In the field of mobile and stationary applications, it is considered to be one of the future energy solutions. Among the different fuel cell types, the proton exchange membrane (PEM) fuel cell has shown great potential in mobile applications, due to its low operating temperature, solid-state electrolyte and compactness. This book pre
