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Autore	Pollone, Giuseppe
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Descrizione fisica	XXVIII, 919 p. : ill. ; 25 cm
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Livello bibliografico	Monografia
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2. Record Nr.	UNINA9910954664403321
Titolo	PEM fuel cell failure mode analysis // edited by Haijiang Wang, Hui Li, Xiao-Zi Yuan
Pubbl/distr/stampa	Boca Raton, : Taylor & Francis, 2012 Boca Raton : , : CRC Press, , 2012
ISBN	0-429-10624-6 1-283-27950-9 9786613279507 1-4398-3918-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (350 p.)
Collana	PEM fuel cell durability handbook
Altri autori (Persone)	WangHaijiang Henry LiHui <1964-> YuanXiao-Zi
Disciplina	621.31/242
Soggetti	Proton exchange membrane fuel cells - Reliability Proton exchange membrane fuel cells - Testing System failures (Engineering)
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Nota di contenuto	Front Cover; Contents; Preface; Editors; Contributors; Chapter 1: Introduction; Chapter 2: Catalyst Degradation; Chapter 3: Catalyst Support Degradation; Chapter 4: Membrane Degradation; Chapter 5: Porous Transport Layer Degradation; Chapter 6: Degradation of Bipolar Plates and Its Effect on PEM Fuel Cells; Chapter 7: Degradation of Other Components; Chapter 8: Contaminant-Induced Degradation; Chapter 9: Environment-Induced Degradation; Chapter 10: Operation-Induced Degradation; Back Cover
Sommario/riassunto	PEM Fuel Cell Failure Mode Analysis presents a systematic analysis of PEM fuel cell durability and failure modes. It provides readers with a fundamental understanding of insufficient fuel cell durability, identification of failure modes and failure mechanisms of PEM fuel cells, fuel cell component degradation testing, and mitigation strategies against degradation. The first several chapters of the book examine the degradation of various fuel cell components, including degradation mechanisms, the effects of operating conditions, mitigation strategies, and testin