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Descrizione fisica	1 online resource (XXXI, 231 pages) : illustrations
Collana	Renewable Energy Sources & Energy Storage, , 2509-9698
Disciplina	333.794
Soggetti	Renewable energy resources Power electronics Electronic circuits Energy systems Renewable and Green Energy Power Electronics, Electrical Machines and Networks Circuits and Systems Energy Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Prospects of Renewable Energy Sources -- Solar Photovoltaic Power Plants: Necessity and Techno-Economical Development -- Development of HTS Cable-Based Transmission Systems for Renewables -- Advanced Electrical Machines for Oceanic Wave Energy Conversion -- Wind Energy System with Matrix Converter -- Matrix Converter Switching and Commutation Strategies for Grid Integration of Distributed Generation -- Control of Renewable Energy Systems.
Sommario/riassunto	This book discusses a number of important topical technical and non-technical issues related to the global energy, environment and socio-economic developments for professionals and students directly and indirectly involved in the relevant fields. It shows how renewable energy offers solutions to mitigate energy demand and helps achieve a clean environment, and also addresses the lack of a clear vision in the development of technology and a policy to reach the mandatory global renewable energy targets to reduce greenhouse gas emissions and stimulate socio-economic development. The book is structured in such

a way that it provides a consistent compilation of fundamental theories, a compendium of current research and development activities as well as new directions to overcome critical limitations; future technologies for power grids and their control, stability and reliability are also presented.

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