1. Record Nr. UNINA9911006899103321

Titolo	Design of smart power grid renewable energy systems / / Ali Keyhani
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2019 Hoboken, New Jersey : , : Wiley, , 2019
ISBN	9781119573340 1119573343 9781523128044 1523128046 9781119573210 1119573211 9781119573265 1119573262
Edizione	[3rd ed]
Descrizione fisica	1 online resource (606 pages)
Classificazione	543.1 621.319/1
Disciplina	621.3191
Soggetti	Smart power grids Smart power grids - Design and construction Electric power systems - Automatic control Distributed generation of electric power - Computer simulation Renewable energy sources Electric circuits Electricity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes bibliographical references and index
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Energy and civilization -- Power grids -- Modeling of converters in power grid distributed generation systems -- Smart power grid systems -- Solar energy systems -- Microgrid wind energy systems -- Load flow analysis of power grids and microgrids -- Power grid and microgrid fault studies -- Smart devices and energy efficient monitoring systems -- Load estimation and classification -- Energy saving and cost estimation of incandescent and light emitting diodes

(led) -- Appendices.

Sommario/riassunto

The Updated Third Edition Provides a Systems Approach to Sustainable Green Energy Production and Contains Analytical Tools for the Design of Renewable Microgrids. The revised third edition of Design of Smart Power Grid Renewable Energy Systems integrates three areas of electrical engineering: power systems, power electronics, and electric energy conversion systems. The book also addresses the fundamental design of wind and photovoltaic (PV) energy microgrids as part of smart-bulk power-grid systems. In order to demystify the complexity of the integrated approach, the author first presents the basic concepts, and then explores a simulation test bed in MATLAB® in order to use these concepts to solve a basic problem in the development of smart grid energy system. Each chapter offers a problem of integration and describes why it is important. Then the mathematical model of the problem is formulated, and the solution steps are outlined. This step is followed by developing a MATLAB® simulation test bed. This important book: Reviews the basic principles underlying power systems Explores topics including: AC/DC rectifiers, DC/AC inverters, DC/DC converters, and pulse width modulation (PWM) methods Describes the fundamental concepts in the design and operation of smart grid power grids Supplementary material includes a solutions manual and PowerPoint presentations for instructors. Written for undergraduate and graduate students in electric power systems engineering, researchers, and industry professionals, the revised third edition of Design of Smart Power Grid Renewable Energy Systems is a guide to the fundamental concepts of power grid integration on microgrids of green energy sources.

2. Record Nr. UNINA9910142793003321

Titolo	The elementary school teacher and the course of study
Pubbl/distr/stampa	Chicago, Ill., : University of Chicago Press, 1901-1902
ISSN	1937-4356
Disciplina	370
Soggetti	Education, Elementary Enseignement primaire Grundschule Zeitschrift periodicals. Czasopismo pedagogiczne Periodicals. Periodiques.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Title from title screen (JSTOR, viewed February 11, 2004).