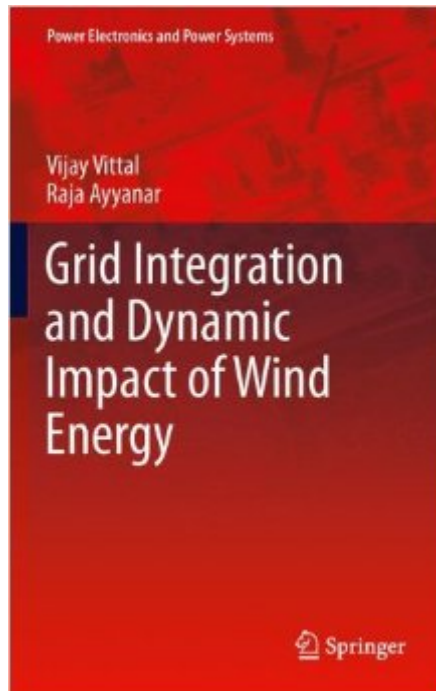


The book was found

Grid Integration And Dynamic Impact Of Wind Energy (Power Electronics And Power Systems)



Synopsis

Grid Integration and Dynamic Impact of Wind Energy details the integration of wind energy resources to the electric grid worldwide. Authors Vijay Vittal and Raja Ayyanar include detailed coverage of the power converters and control used in interfacing electric machines and power converters used in wind generators, and extensive descriptions of power systems operation and control to accommodate large penetration of wind resources. Key concepts will be illustrated through extensive power electronics and power systems simulations using software like MATLAB, Simulink and PLECS. The book addresses real world problems and solutions in the area of grid integration of wind resources, and will be a valuable resource for engineers and researchers working in renewable energy and power.

Book Information

Series: Power Electronics and Power Systems

Paperback: 150 pages

Publisher: Springer; 2013 edition (June 15, 2012)

Language: English

ISBN-10: 1489998454

ISBN-13: 978-1489998453

Product Dimensions: 6.1 x 0.4 x 9.2 inches

Shipping Weight: 9 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars [See all reviews](#) (1 customer review)

Best Sellers Rank: #2,360,321 in Books (See Top 100 in Books) #99 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Wind](#) #361 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Power Systems](#) #404 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electric Machinery & Motors](#)

Customer Reviews

Vittal, V. and Ayyanar, R., Grid Integration and Dynamic Impact of Wind Energy, Springer, 2012 148 pages, ISBN 978-1-4419-9323-6 Reviewed by D. Subbaram Naidu, Idaho State University (formerly Book Review Editor: IEEE Transactions on Automatic Control; Wiley International Journals of Robust and Nonlinear Control and Optimal Control: Applications and Methods, Elsevier International Journal Mechatronics: The Science of Intelligent Machines, and Reviewer for .com). Wind energy, as one of the alternative energy resources, has recently received a lot of attention by academicians,

professionals and industry. The present volume integrates the wind energy and electric grid, by short presentations of various related topics of dynamic models and performance of wind generators, power converters, and controllers. A very appealing feature of this book is the focus on real world problems in wind energy and simulations using academic and industry standard software such as MATLAB, SIMULINK, and PLECS. The book is of interest to engineers and researchers in wind energy and graduate students working in renewable energy. It is a welcome addition to the host of books on wind energy such as [1,2].

References[1] Munteanu, I., Bratcu, A.I., Cutululis, N.-A., Ceanga, E., Optimal Control of Wind Energy Systems, Springer 2008[2] Mueen, S.M. (Ed.), Wind Energy Conversion Systems, Springer, 2012

[Download to continue reading...](#)

Grid Integration and Dynamic Impact of Wind Energy (Power Electronics and Power Systems) Cash in the Wind: How to Build a Wind Farm using Skystream and 442SR Wind Turbines for Home Power Energy Net-Metering and Sell Electricity Back to the Grid Solar PV Off-Grid Power: How to Build Solar PV Energy Systems for Stand Alone LED Lighting, Cameras, Electronics, Communication, and Remote Site Home Power Systems Wind Power Basics: The Ultimate Guide to Wind Energy Systems and Wind Generators for Homes Living Off The Grid And Loving It: 40 Creative Ways To Living A Stress Free And Self-Sustaining Lifestyle (Simple Living, Off Grid Living, Off The Grid Homes, DIY Survival Guide, Prepping & Survival) Grid Down: How To Prepare For Surviving A Gas, Water, Or Electricity Grid Collapse (EMP Survival, Emergency Preparedness, Off The Grid, SHTF Stockpile, ... Camping, SHTF Books, SHTF Preparedness) Wind Power Guide - how to use wind energy to generate power (OneToRemember Energy Guides Book 1) Solar Power: Proven Lessons How to Build Your Own Affordable Solar Power System: (Energy Independence, Lower Bills & Off Grid Living) (Self Reliance, Solar Energy) Wind Energy Essentials for the Homeowner: Common Questions About Wind Energy for the Home Enterprise Integration: An Architecture for Enterprise Application and Systems Integration Design of Smart Power Grid Renewable Energy Systems Reiki: The Healing Energy of Reiki - Beginner's Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) Power Conversion and Control of Wind Energy Systems (IEEE Press Series on Power Engineering) Got Sun? Go Solar, Expanded 2nd Edition: Harness Nature's Free Energy to Heat and Power Your Grid-Tied Home Dynamic Programming and Optimal Control, Vol. II, 4th Edition: Approximate Dynamic Programming Amplified Art: Dynamic Techniques for High-Impact Pages Wind Power Workshop: Building Your Own Wind Turbine Impact Mapping: Making a Big Impact with Software Products and Projects IMPACT Mathematics, Course 3, Spanish

Student Edition (ELC: IMPACT MATH) (Spanish Edition) Solar Electric Power Generation - Photovoltaic Energy Systems: Modeling of Optical and Thermal Performance, Electrical Yield, Energy Balance, Effect on Reduction of Greenhouse Gas Emissions

[Dmca](#)