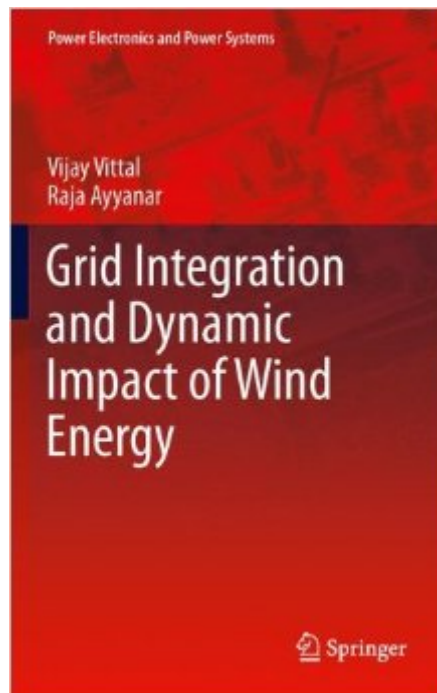


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# Grid Integration And Dynamic Impact Of Wind Energy (Power Electronics And Power Systems)



## 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

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## 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] Mueeen, S.M. (Ed.), Wind Energy Conversion Systems, Springer, 2012

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