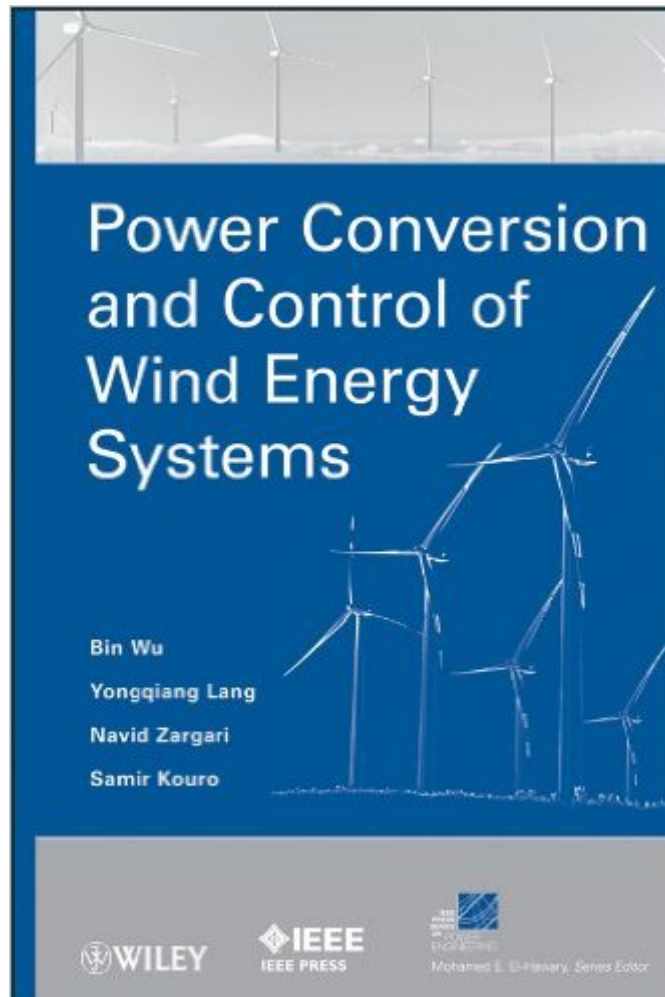


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Power Conversion And Control Of Wind Energy Systems (IEEE Press Series On Power Engineering)



Synopsis

The book presents the latest power conversion and control technology in modern wind energy systems. It has nine chapters, covering technology overview and market survey, electric generators and modeling, power converters and modulation techniques, wind turbine characteristics and configurations, and control schemes for fixed- and variable-speed wind energy systems. The book also provides in-depth steady-state and dynamic analysis of squirrel cage induction generator, doubly fed induction generator, and synchronous generator based wind energy systems. To illustrate the key concepts and help the reader tackle real-world issues, the book contains more than 30 case studies and 100 solved problems in addition to simulations and experiments. The book serves as a comprehensive reference for academic researchers and practicing engineers. It can also be used as a textbook for graduate students and final year undergraduate students.

Book Information

File Size: 13307 KB

Print Length: 480 pages

Publisher: Wiley-IEEE Press; 1 edition (September 26, 2011)

Publication Date: September 26, 2011

Sold by: Digital Services LLC

Language: English

ASIN: B00HLFMOSS

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,081,442 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #76

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