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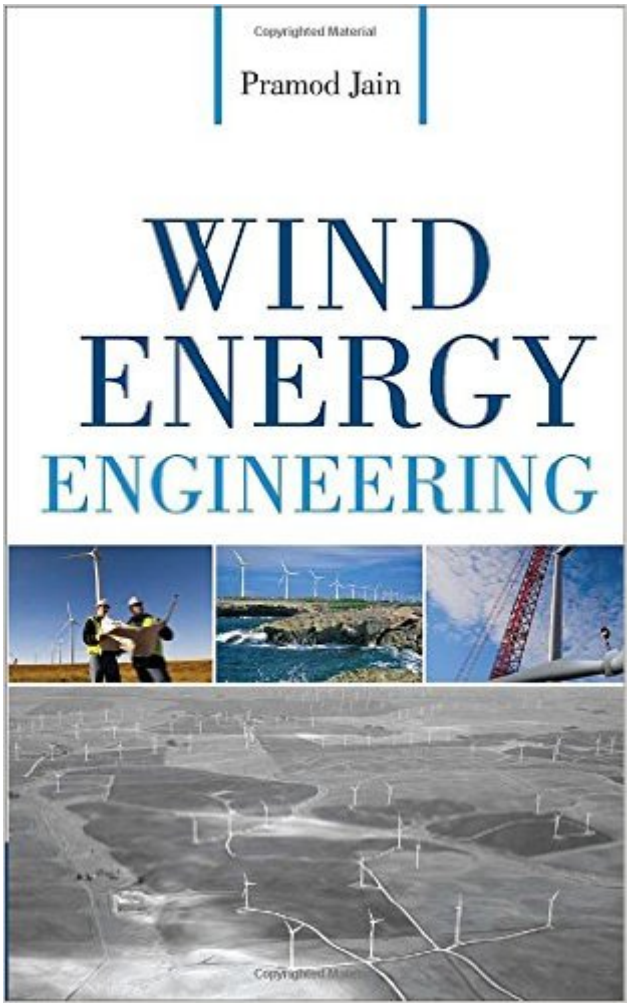
Wind Energy Engineering



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Synopsis

A PRACTICAL GUIDE TO WIND ENERGY ENGINEERING AND MANAGEMENT This authoritative resource offers comprehensive details on effectively using wind energy as a viable and economical energy source. Featuring a multidisciplinary approach, Wind Energy Engineering covers physics, meteorology, aerodynamics. wind measurement, wind turbine specifications, electricity, and integration with the grid. Planning, site selection, cost assessment, environmental impact, and project management are also discussed. Filled with diagrams, tables, charts, graphs, and statistics, this is a definitive reference to current and future developments in wind energy. Wind Energy Engineering covers: The business of wind energy worldwide Wind energy basics Meteorological properties of wind and air Aerodynamics of wind turbine blades Wind measurement, data management, and reporting Wind resource assessment Advanced topics in resource assessment, including wake, losses, and uncertainty Wind turbine generator components Electricity and generator basics Deploying wind turbines in the grid Environmental impact of wind projects Financial modeling, planning, and execution of wind projects

Book Information

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Customer Reviews

The impetus of writing this book was a lack of books on the market that targeted engineers. Specifically, I wanted to write a book that would give an engineer from any discipline sufficient knowledge about the multi-disciplinary field of wind energy. Â This book intends to bring to bear at least five disciplines in order to provide a reasonably comprehensive understanding of the field of

wind energy. Â The five disciplines are Meteorology, Mechanical & Aeronautical engineering, Civil engineering, Electrical engineering and Environmental engineering. Â In addition, to these core engineering disciplines, the book has chapters on finance and project management, two business related disciplines that are key to wind energy.I wrote the book with the following audience in mind. Â First are engineers and scientists that are in the wind industry, but practice in a narrow segment of the industry that covers their specific discipline. Second are engineers and scientists that want to enter the wind industry. Third are undergraduate engineering students and technical college students that want to learn about the various disciplines in wind energy engineering. Â Finally, the intended audience is business people and project managers that work in the wind energy industry. Â As an engineer, you will find sufficient detail about each of the topics. Â I have kept the level of math to a level that would be comfortable to a practicing engineer. Â In areas that require sophisticated math, I have attempted to provide insights into the relationships. --Preface of book

Pramod Jain, Ph.D., is founder and president of Innovative Wind Energy, Inc., a wind energy consulting company. He is recognized as a global expert in the planning of wind projects and has worked on projects in the United States, the Caribbean, and Latin America that range from a single 100 kW turbine to a 100-plus MW wind farm. Dr. Jainâ ™s clients include Fortune 100 companies, the U.S. government, universities, utilities, municipalities, and land developers. He was a cofounder and Chief Technologist at Wind Energy Consulting and Contracting, Inc. He has a Ph.D. in Mechanical Engineering from University of California, Berkeley, and a B. Tech. from Indian Institute of Technology, Bombay.

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