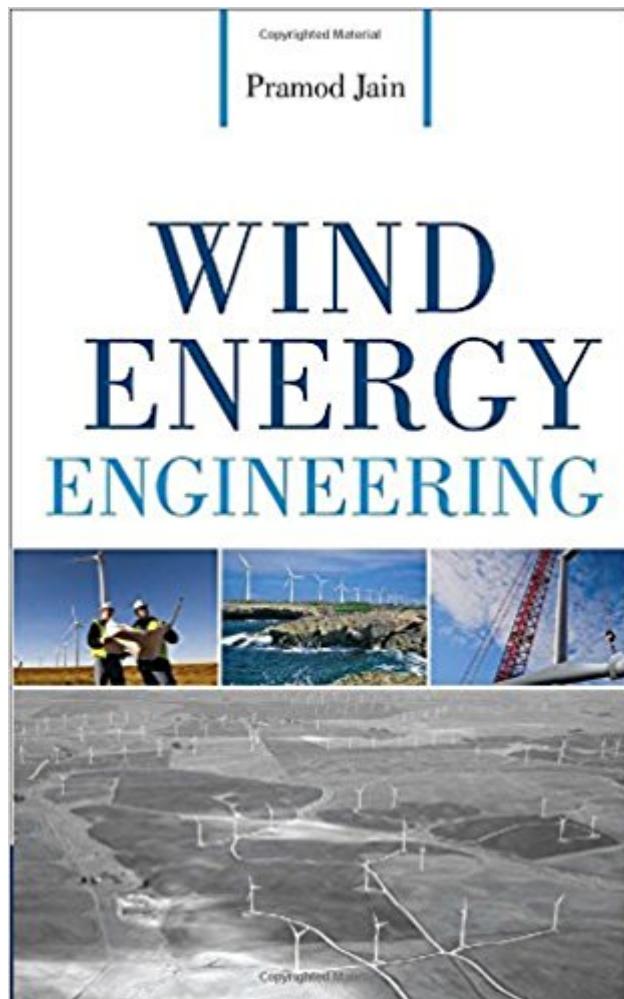


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# Wind Energy Engineering



## 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

Hardcover: 352 pages

Publisher: McGraw-Hill Education; 1 edition (September 22, 2010)

Language: English

ISBN-10: 0071714774

ISBN-13: 978-0071714778

Product Dimensions: 6.3 x 1 x 9.3 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars 9 customer reviews

Best Sellers Rank: #1,307,851 in Books (See Top 100 in Books) #42 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Wind #707 in Books > Textbooks > Engineering > Environmental Engineering #2058 in Books > Textbooks > Engineering > Mechanical Engineering

## 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. 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. The five disciplines are Meteorology, Mechanical & Aeronautical engineering, Civil engineering, Electrical engineering and Environmental engineering. 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. 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. Finally, the intended audience is business people and project managers that work in the wind energy industry. As an engineer, you will find sufficient detail about each of the topics. I have kept the level of math to a level that would be comfortable to a practicing engineer. 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. Jain'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.

Excellent book for students, engineers, and instructors, Easy to understand, very concise, all important and necessary equations are given and explanations are very clear and to the point. It will be good to add some problems, solution manual, and class presentations.

Good Overall, Centered on the previous steps, Engineering and Project managing of a Wind project.

Great

It's a very good book with a complete description about the theory and good practices that should be followed to develop a good wind farm project. I recommend.

For the complete beginner it can be ok, it makes a review of different aspects within the wind energy industry, but for the medium experienced reader there's nothing new in this book. Most of the shown material can be textually found in other books without any additional explanations than those originally found in the sources (the books mentioned in the bibliography and some software handbooks).

A must have for project managers (PM) in the wind industry. Book covers the routine to the complex in a clear, organized and well illustrated manner. Reader/PM will take away a better understanding of what is involved in harnessing wind power and more importantly what is required for a successful wind project. Chapters 9 through 14 are especially helpful; they cover everything from wind turbine components to the planning and execution of a wind project. This book would be an excellent addition to a seasoned PM's resource library, but equally important as a "field manual" for a PM venturing into wind projects for the first time. It covers what every a PM has to be familiar with and deal with on a wind project. As a PM who ventured into the wind industry, I see the value of this book and I highly recommend it. Well Done!

Clear writing and extensive use of diagrams and charts make this book a great up-to-date and easy-to-understand resource on modern wind power engineering. There are over 90 pages dedicated to wind measurement and resource assessment, a most critical aspect for getting a wind project right. Chapter 2: "Basics of Wind Energy and Power" contains the clearest, most concise explanation of the physics of wind energy that I have come across. Not being an engineer but engineering-inclined, I was comfortable enough diving into the book but felt challenged as I progressed through the more advanced chapters. For its technical depth and comprehensiveness, it's not a very large book. I'd even suggest it for pool-side reading. However, I feel it's best suited as a reference for practitioners or those serious about entering the field of wind energy.

my family all need it , i will come next time . great, Perfect product for us! high quality and very value for this price .

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