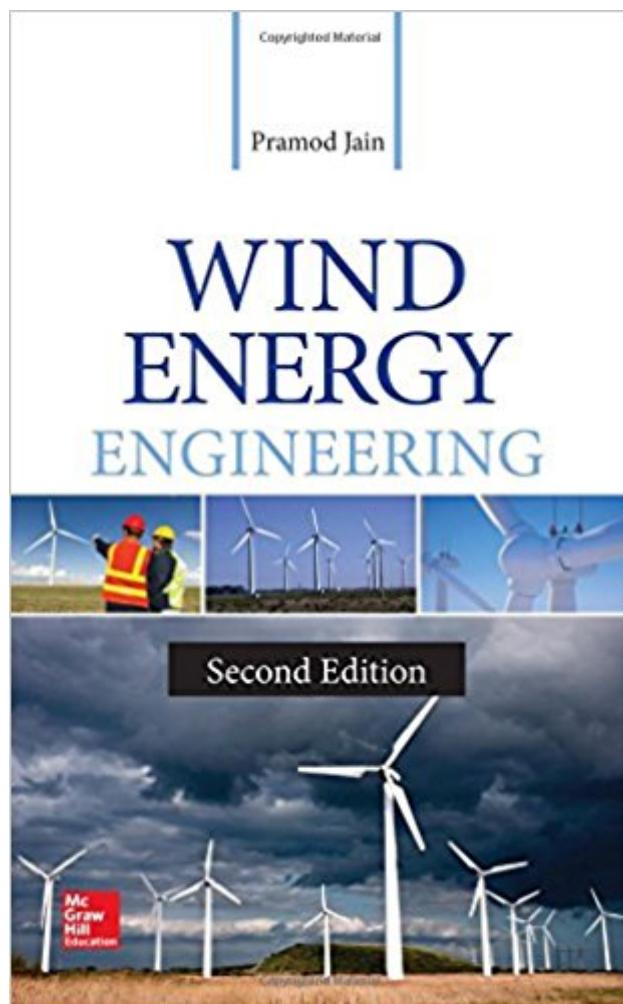


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# Wind Energy Engineering, Second Edition (Mechanical Engineering)



## Synopsis

A fully up-to-date, comprehensive wind energy engineering resource. This thoroughly updated reference offers complete details on effectively harnessing wind energy as a viable and economical power source. Globally recognized wind expert Pramod Jain clearly explains physics, meteorology, aerodynamics, wind measurement, wind turbines, and electricity. New energy policies and grid integration procedures are covered, including pre-deployment studies and grid modifications. Filled with diagrams, tables, charts, graphs, and statistics, *Wind Energy Engineering, Second Edition*, is a definitive guide to current developments and emerging technologies in wind energy. *Wind Energy Engineering, Second Edition* covers:

The worldwide business of wind energy  
Wind energy basics  
Meteorological properties of wind and air  
Wind turbine aerodynamics  
Turbine blade element models and power curves  
Wind measurement and reporting  
Wind resource assessment  
Advanced resource assessment topics, including wake, losses, and uncertainty  
Wind turbine generator components  
Electricity and generator fundamentals  
Grid integration of wind energy  
Environmental impact of wind projects  
Financial modeling, planning, and execution of wind projects  
Wind energy policy and licensing guidelines

## Book Information

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## Customer Reviews

5 star review for the First Edition: "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 in the wind industry, I highly recommend it. Well done!" (RP Adelhelm 2010-10-11) 5 star review for the First Edition: "Outstanding! If you are in the wind industry, want to be, or are considering a wind project of your own, read this book! While it's not easy to cover the many facets of wind energy development, Mr. Jain has accomplished this with seeming ease. Each piece of the development puzzle is covered with just the right level of detail. The science behind wind energy is fully and very understandably explained; then matched with tools you can use, bridging the gap between theory and practice. Mr. Jain's work is essential for the classroom, job-site, homeowner, small business or community considering a wind project. Once you read it, keep it close by because you will find it an easy and necessary reference tool." (Glenn Mauney 2010-10-13) Praise for the First Edition: "For those who want a grounding in the physics and basic engineering of wind turbines, this book probably isn't a bad place to start. All sections include useful references." (EET Power Electronics 2010-09-01)

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, policy and project management, three 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. In the first edition of the book, wind energy policy was not covered; therefore there was a gaping hole in the book. Â Also, the exposition on grid integration of wind power did not cover the detailed studies. Â The second edition of the book fills these two gaps--wind energy policy and grid integration studies.Â --Preface of book

I purchased Â¢Â¢Wind Energy Engineering, Second Edition,Â¢Â¢ because I was looking for an excellent, easy-to-read resource that explains the principles of wind energy in a way that makes them easy to understand (similar to how Â¢Â¢Photovoltaic Systems, Third Edition,Â¢Â¢ by James P. Dunlop, explains the principles of solar energy). My goal was simply to read through "Wind Energy Engineering" to gain a better understanding of wind energy. The book has a lot of valuable information. It gives VERY in-depth explanations of the principles of Wind Energy, and it has over 200 equations (including integrals and derivatives from Calculus) to quantify them! I found it very difficult to visualize most of the equations simply by reading the book (although I am an electrical engineer). Such visualization would require in-depth study. On the other hand, I enjoyed reading Chapter 6 on Wind Measurement, for example, because it was one of the more readable chapters. Â¢Â¢Wind Energy EngineeringÂ¢Â¢ is an excellent resource if you want to go beyond the basics and dig deeply into the principles of wind energy (especially the math involved). I give the book 5 stars for addressing the principles of Wind Energy in depth, and I give it 2 stars on readability and making this complex subject easy to understand, which rounds up to an average of 4 stars overall.

good . Thin and sharp. Well excellence. Great product. feel very good . my family , arrive on time.

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