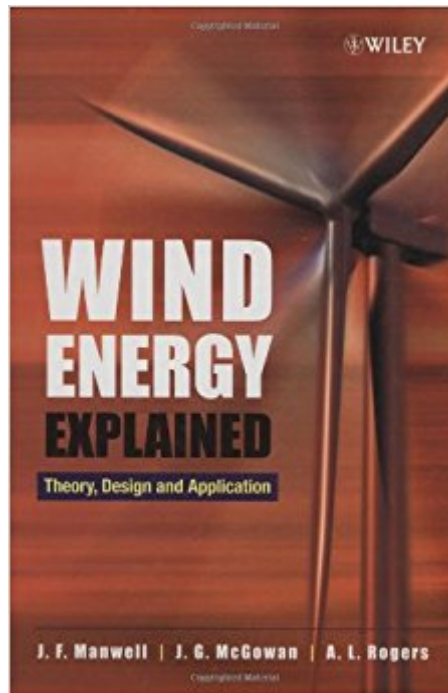




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Wind Energy Explained



Synopsis

This authoritative textbook is intended to provide both a thorough and highly accessible introduction to the cross-disciplinary field of wind engineering. The economic viability and political appeal of wind power is on the increase, making this text a timely addition to the literature. * Developed to complement the increasing number of renewable/wind energy courses now available *

End-of-chapter tutorial sections (solutions manual available) * Combines both academic and industrial experience giving the text a dual market appeal * Comprehensive coverage spans every aspect of wind energy engineering

Book Information

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Customer Reviews

"...well written and comprehensive ...deserves a place in the library of every university and college where renewable energy is taught." (The International Journal of Electrical Engineering Education, Vol.41, No.2 April 2004) "...provides a wealth of information and is an excellent reference book for people interested in the subject of wind energy." (IEEE Power & Energy Magazine, Nov/Dec 2003) "...Extremely good value for money...it is difficult to think of any topic that has been omitted..." (IEE Review, September 2002) "...can be thoroughly recommended as a comprehensive introduction..." (Times Higher Education Supplement, 29 November 2002) "...a very comprehensive and well-organized treatment of the current status of wind power...highly recommended for all serious students of this technology." (Choice, Vol. 40, No. 4, December 2002)

Recent years have seen a growth in the implementation and economic viability of wind energy technology. This safe and abundant source of clean, renewable energy is now making a significant contribution to electricity supplies worldwide. Addressing the growing requirement for information on the theory and practical application of wind technology *Wind Energy Explained* provides a thorough introduction to this multi-disciplinary field. This authoritative and accessible textbook: Provides an overview of wind energy technology, charting the development of the first modern wind turbines. Discusses the characteristics of the wind resource and the atmospheric boundary layer. Outlines the aerodynamic principles and mechanics of the wind turbine, before going on to consider the electrical aspects of energy conversion and generation. Examines key issues of wind turbine design and wind system control. Offers guidance on turbine siting and integration issues and analyses the economic benefits of wind energy generation. Considers the environmental impact of single turbines and wind farms and the design of wind systems for minimal visual impact. Provides a comprehensive set of tutorial problems based on the contents on each chapter. The comprehensive coverage ranging from wind turbine control and operation to system design and public policy will appeal to engineering students from a variety of backgrounds. Practitioners new to the field of renewable energy will find this a valuable introduction to an emerging energy source.

This book doesn't provide enough examples. Just one here or there. If you haven't memorized all base SI units, you'll need to look those up. Basically, the SI units are not provided. The questions are terrible also.

This is the worse book I ever had for any of my engineering courses. A book with no sample problems and unclear explanations. It really sucks.

Well

I've just started this book. It's for a Wind Energy Systems course. So far, it has been a very straight-forward and practical introduction into the field of wind energy. While it is very easy to understand and very practical, it's also been quite thorough in explaining the concepts. Overall, I anticipate this to be a great book; certainly one of the "keepers" you come across every now and then.

This book is absolutely the best book I have owned on the subject. I love the simplicity of the text, clarity of the illustrations, and above all the fact that it covered all the necessary areas on the subject. I strongly recommend it to anyone interested in expanding their knowledge on wind energy.

Jim Manwell, Jon McGowan, and their colleagues have done an excellent job in presenting wind energy development, history, and concepts,

Great book, lots of math and formulas. i enjoyed it when I was studying ME Wind Energy no other thoughts, you should buy it if you want to build a wind farm

This is a great book. So far, the theoretical teachings in this book have been excellent for my ME 430 class.

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