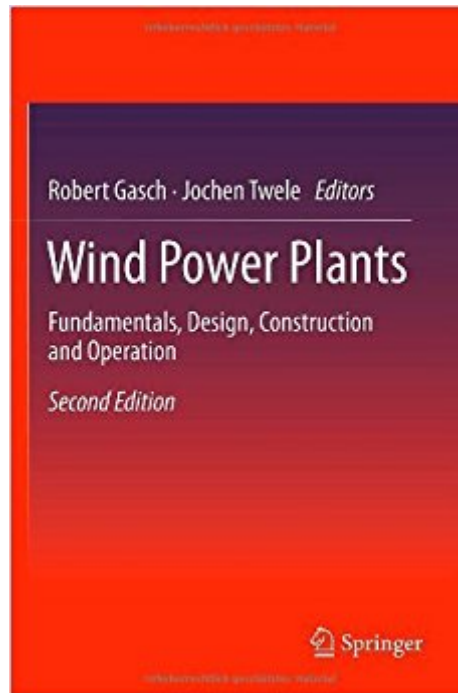




The book was found

Wind Power Plants



Synopsis

Wind power plants teaches the physical foundations of usage of Wind Power. It includes the areas like Construction of Wind Power Plants, Design, Development of Production Series, Control, and discusses the dynamic forces acting on the systems as well as the power conversion and its connection to the distribution system. The book is written for graduate students, practitioners and inquisitive readers of any kind. It is based on lectures held at several universities. Its German version it already is the standard text book for courses on Wind Energy Engineering but serves also as reference for practising engineers.

Book Information

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Customer Reviews

I chose this book because I wanted to learn in depth about large wind turbine technology, and I regard the authors as true experts on the subject. My professional background: Ph.D. in physics, professional experience as an engineer and with installation of small wind turbines up to 10 kW. At less than 400 pages this book could easily have had three times its current volume. The authors cannot be complimented enough for restraining themselves and keeping the book short. I was

especially impressed by the elegance of their mathematical analysis throughout the book. One can only wonder about the mental effort necessary in order to present the essential material in such a short and precise manner. There are a few typos in the formulas. Also, this book definitely requires some background in physics (classical mechanics, fluid dynamics), math (calculus, differential equations) and engineering (methods, concepts). Therefore the book is not really suitable as a first introduction to wind power in my opinion, unless you are a true genius. The inevitable drawback of the short and precise mathematical derivations is that many concepts and formulas must be taken for granted by the reader. This is perfectly fine for the engineer but less appealing to the scientist. However, detailed footnotes and sources at the end of each chapter should enable the reader to dive as deep as he or she wishes. Although the authors have probably forgotten more on the subject than I will ever learn, I would like to finish with some constructive criticism: First, the book describes several academic projects of the TU Berlin which are pretty irrelevant for the rest of the world.

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