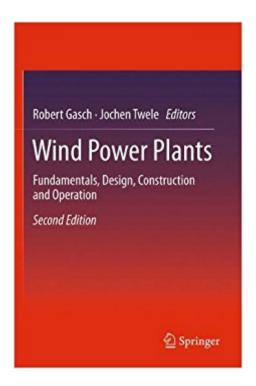


The book was found

Wind Power Plants: Fundamentals, Design, Construction And Operation





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

Paperback: 548 pages

Publisher: Springer; 2nd ed. 2012 edition (December 28, 2011)

Language: English

ISBN-10: 3642229379

ISBN-13: 978-3642229374

Product Dimensions: 6.1 x 1.3 x 9.2 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars 6 customer reviews

Best Sellers Rank: #2,235,127 in Books (See Top 100 in Books) #77 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Wind #218 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Drilling Procedures #339 in Books > Engineering & Transportation > Engineering > Marine Engineering

Customer Reviews

From the reviews of the second edition:â œThis book was intended for graduate students, practitioners and anyone interested in the subject. â | It is well organized and gives the reader enough information to read the book without having any specialized knowledge on wind energy. â | Illustrations are plentiful and very good, and equations are clearly stated and easily followed. Furthermore, there are a great number of references at the back of each chapter â | . it is a great tool for students, practitioners, and engineers.â • (Panos Economou, Noise Control Engineering Journal, Vol. 60 (4), July-August, 2012)

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.

This book is good only as a reference. It has a considerable amount of mostly theoretical information, but the latter should have been ordered much better, specially more fluidly. The Index is only five pages long, with about 35 entries on each page, and it also needs to be enlarged if it is to be really helpful. The chapter on Windpumping Systems should be replaced with something more in line with the title of the book: "Wind Power Plants," which implies electrical power.

I have this 2 of Gasch book include 1st edition. It's must-have item for windpower engineer. The basic's of wind turbine is explained very well!!

Great

This First Edition in English is based on the 3rd German edition from 1996! The Second English Edition, based on a German version from 2006 is currently available. Much of the content is the same but since the Second edition is available at virtually the same price go buy that one, it is a very good book!

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. Secondly, the book almost completely ignores the small but perceptible commercial success of small wind power plants either off-grid or in distributed generation. Third, the book wastes a whole chapter on mechanical wind pumping systems which imo really do not belong into it. That technology is pretty much a stillborn child, anyway, because wind is found up high and water down low. A tried and proven purely mechanical design - where feasible - has been known for more than a century in the form of the American farm windmill. The authors later briefly mention wind-electric pumping applications, which manage to avoid the above fundamental technical problem and would fit much better in with the book's title. Finally, the book would benefit from some detailed datasheets and in-depth comparisons of competing manufacturer's technologies in the medium power class. The table on page 341 is a very encouraging first step in that direction. Overall this book is a great value for its money and will have a secure place in my library. I can't wait for a revised edition which will hopefully incorporate the latest trends and developments in this complex, rapidly developing technology.

If you are a Wind Power Generation enthusiast this book is for you! However I must warn you there is need for a some-how high mathematical knowledge in order to grasp the concepts described, such as: trigonometry, geometry, derivates, integrates, graphics interpretation, etc. It requires to know and understand the basic Physics formulae for: thrust, work, acceleration (Newtons 2nd law), polar inertia, impetu, etc. This is a very technical book intended for Engineers or Technicians. If that is not an issue for you, this is a must have!

Download to continue reading...

Wind Power Plants: Fundamentals, Design, Construction and Operation House Plants: A Guide to Keeping Plants in Your Home (House Plants Care, House Plants for Dummies, House Plants for Beginners, Keeping Plants in Your Home, DIY House Plants Book 1) Air Plants: A Beginners Guide To Understanding Air Plants, Growing Air Plants and Air Plant Care (Air Plants, Ornamental Plants, House Plants) Solar Power: The Ultimate Guide to Solar Power Energy and Lower Bills: (Off Grid

Solar Power Systems, Home Solar Power System) (Living Off Grid, Wind And Solar Power Systems) Off-Grid Living: How To Build Wind Turbine, Solar Panels And Micro Hydroelectric Generator To Power Up Your House: (Wind Power, Hydropower, Solar Energy, Power Generation) Cash in the Wind: How to Build a Wind Farm Using Skystream and 442SR Wind Turbines for Home Power Energy Net-Metering and Sell Electricity Back to the Grid Cash In The Wind: How to Build a Wind Farm with Skystream and 442SR Wind Turbines for Home Power Energy Net Metering and Sell Electricity Back to the Grid Wind Power Basics: The Ultimate Guide to Wind Energy Systems and Wind Generators for Homes Plastic Injection Molding: Mold Design and Construction Fundamentals (Fundamentals of Injection Molding) (2673) (Fundamentals of injection molding series) Auto Mechanics Fundamentals: How and Why of the Design, Construction, and Operation of Automotive Units 2012 Wood Design Package - including the National Design Specification A® for Wood Construction (NDS®) & NDS Supplement: Design Values for Wood Construction (4 volumes set) House Plants: Volume III: 2 Book Boxset - Air Plants & Your First Cacti (Ornamental Plants, House Plants, Indoor Gardening 3) Foraging: A Beginners Guide To Foraging Wild Edible Plants (foraging, wild edible plants, foraging wild edible plants, foraging for beginners, foraging wild edible plants free.) Wind Power Generation And Distribution (Art and Science of Wind Power) Wind Power Guide - how to use wind energy to generate power (OneToRemember Energy Guides Book 1) Construction Contract Dispute and Claim Handbook, Introduction, and Division 01: A Primer on the Nature of Construction Contract Disputes for Attorneys, ... (Construction Contract Dispute Handbook) The Food and Heat Producing Solar Greenhouse: Design, Construction, and Operation 2016 National Construction Estimator (National Construction Estimator) (National Construction Estimator (W/CD)) Power Training: For Combat, MMA, Boxing, Wrestling, Martial Arts, and Self-Defense: How to Develop Knockout Punching Power, Kicking Power, Grappling Power, and Ground Fighting Power Rolls-Royce Merlin Manual - 1933-50 (all engine models): An insight into the design, construction, operation and maintenance of the legendary World War 2 aero engine (Owners' Workshop Manual)

Contact Us

DMCA

Privacy

FAQ & Help