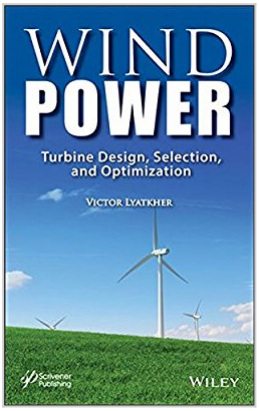

Wind Power: Turbine Design, Selection, and Optimization

By Victor M. Lyatkher

Wind Power: Turbine Design, Selection, and Optimization By Victor M. Lyatkher

An up-to-date and thorough treatment of the technologies, practical applications, and future of wind power, with the pros and cons and technical intricacies of various types of wind turbines and wind power prediction

With the demand for energy outstripping availability from conventional sources such as fossil fuels, new sources of energy must be found. Wind power is the most mature of all of the renewable or alternative sources of energy being widely used today. With many old wind turbines becoming obsolete or in need of replacement, new methods and materials for building turbines are constantly being sought after, and troubleshooting, from an engineering perspective, is paramount to the operational efficiency of turbines currently in use.

Wind Power: Turbine Design, Selection, and Optimization:

- Details the technical attributes of various types of wind turbines, including new collinear windmills, orthogonal windmills, non-vibration VAWT wind turbines, and others
- Covers all the updated protocols for wind power and its applications
- Offers a thorough explanation of the current and future state of wind power
- Is suitable not only as a reference for the engineer working with wind power but as a textbook for graduate students, postdoctoral students, and researchers

Wind power is one of the fastest-growing, oldest, and "greenest" of the major sources of renewable energy that has been developed, with more efficient and cost-effective technologies and materials now constantly being sought for turbines and the equipment used with them. Here is a comprehensive and thorough review of the engineering pros and cons of using different kinds of wind turbines in different environments, including offshore. With full technical knowledge, engineers, managers, and other decision-makers in the wind energy industry can make more informed decisions about increasing capacity, cost-efficiency, and equipment longevity.

Covering the various types of wind turbines available, such as new collinear windmills, orthogonal turbines, and others, this highly technical treatment of

wind turbines offers engineers, students, and researchers insight into the practical applications of these turbines and their potential for maximum efficiency.

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Editorial Review

From the Back Cover

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READERSHIP:

Wind engineers, structural engineers, mechanical engineers, electrical engineers, and any technicians or operators working with turbines.

About the Author

Victor Lyatkher is a professor, engineer, and inventor and has worked for over thirty years in the wind and hydro-power industry. Educated in Moscow and Leningrad, Dr. Lyatkher has developed and patented numerous processes and machines which deal mainly with renewable energy sources such as tidal power, water turbines, and vertical axis wind turbines. He developed a new method of forecasting long-term variations in the level of the Caspian Sea and designed a new kind of low head turbine. He has been the

recipient of several prizes and awards for his accomplishments, including the Prize of the Council of Ministers of the USSR, the Award of the Indian Society of Earthquake Technology, and five medals (in gold, silver and bronze) of the All Union USSR Exhibition. He has published numerous books (in Russian) on the subject of renewable energy, and was the original inventor of the helical turbine, patented in the USSR in 1983.

Users Review

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Emily Walker:

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