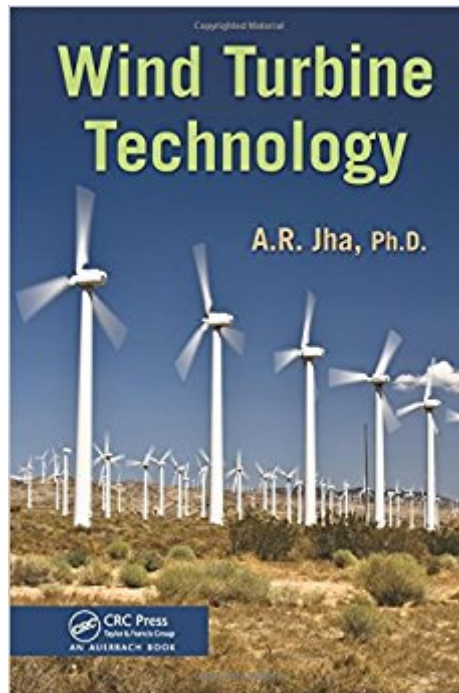




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Wind Turbine Technology



Synopsis

Highlighting the capabilities, limitations, and benefits of wind power, *Wind Turbine Technology* gives you a complete introduction and overview of wind turbine technology and wind farm design and development. It identifies the critical components of a wind turbine, describes the functional capabilities of each component, and examines the latest performance parameters and procurement specifications for these components. From cutting-edge design aspects to experimental data, this comprehensive reference contains eight chapters—each dedicated to a specific design aspect of wind turbine technology. It examines potential wind turbine installation configurations, along with the structural requirements for the tower and nacelle. The book also:

- Presents site wind speed prediction techniques
- Addresses the integration of wind farms into the electrical power system, including power quality and system stability
- Describes wind speed frequency distribution and the structure of turbulence
- Details design and analysis techniques, as well as the functions of wind turbine controllers

The book uses a conventional nomenclature and consistent sets of symbols and units throughout to present the information in a manner that's easy to understand. It also explains how to compare electrical energy generation costs from wind turbine installation with those of other renewable energy sources.

Book Information

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Customer Reviews

The book is well organized and emphasizes both theoretical and practical aspects of wind machines. Mathematical equations are provided for important turbine design parameters. I strongly

recommend this book to a broad audience including students, design engineers, research scientists, project managers, environmental scientists, and renewal energy source planners. ... Dr. A. R. Jha, presents a comprehensive guide to wind turbine technology and the technical considerations for designing wind turbines for various applications.â •Shobha Singh, PhD, Distinguished Member of Technical Staff, AT&T Bell Laboratories(Retired),Â and Fellow and Laboratory Director of the Polaroid Corporation (Retired)

Dr. A.R. Jha is a Senior Consulting Scientist.

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