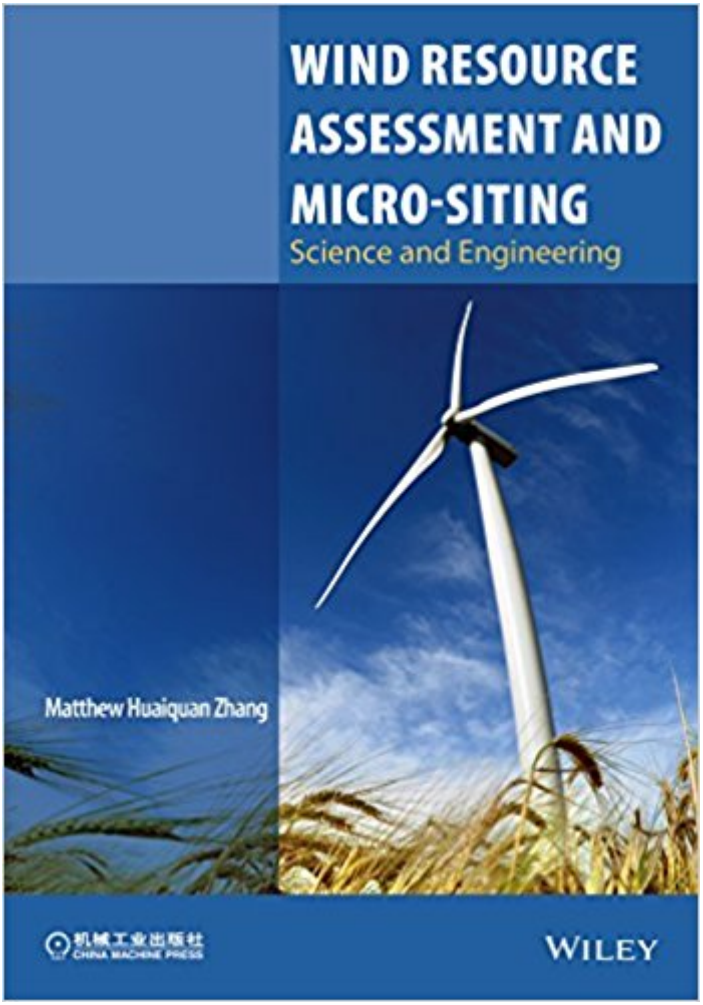
Wind Resource Assessment And Micro-siting: Science And Engineering



Synopsis

Covers all the key areas of wind resource assessment technologies from an engineerâ ™s perspective Focuses on wind analysis for wind plant siting, design and analysis Addresses all aspects from atmospheric boundary layer characteristics, to wind resource measurement systems, uncertainties in measurements, computations and analyses, to plant performance Covers the basics of atmospheric science through to turbine siting, turbine responses, and to environmental impacts Contents can be used for research purposes as well as a go-to reference guide, written from the perspective of a hands-on engineer Topic is of ongoing major international interest for its economic and environmental benefits

Book Information

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Customer Reviews

Covering all key areas of wind resource assessment, this book is a foundational guide to the engineer looking to analyse the feasibility and implementation of wind energy projects. Key topics include wind flow modelling, wind statistics, wind measurement, data analysis and MCP. Uncertainty analysis, wind energy meteorology, offshore micro-siting and environmental impact assessment add depth to the readerâ ™s evaluation of wind resources. Written by an engineer with extensive industry knowledge, this book approaches the subject area with practical methodology as well as a good theoretical grounding by first providing context before easing into daily applications. â ¢ Focuses on wind resource assessments for the siting, design and analysis of wind power plants â ¢ Comprehensive topic coverage from atmospheric boundary layer characteristics, to wind resource

measurement systems, uncertainties in measurements, to computations and analyses â ¢ Includes the basics of atmospheric science, turbine siting and responses, as well as environmental impacts â ¢ A timely addition to a field of major international interest for its economic and environmental benefits Written with wind resource assessment specialists in mind, Wind Resource Assessment and Micro-siting: Science and Engineering is a good bridge between industry professionals and academic researchers. Wind energy developers and advanced students will also find it a handy reference.

Matthew Huaiquan Zhang,Independent Renewable Energy Consultant, China/ UK