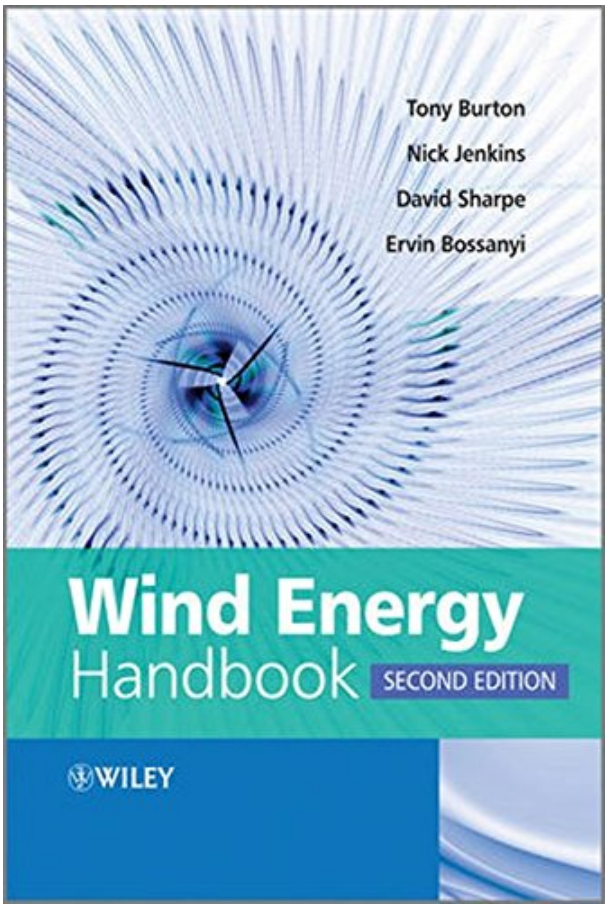
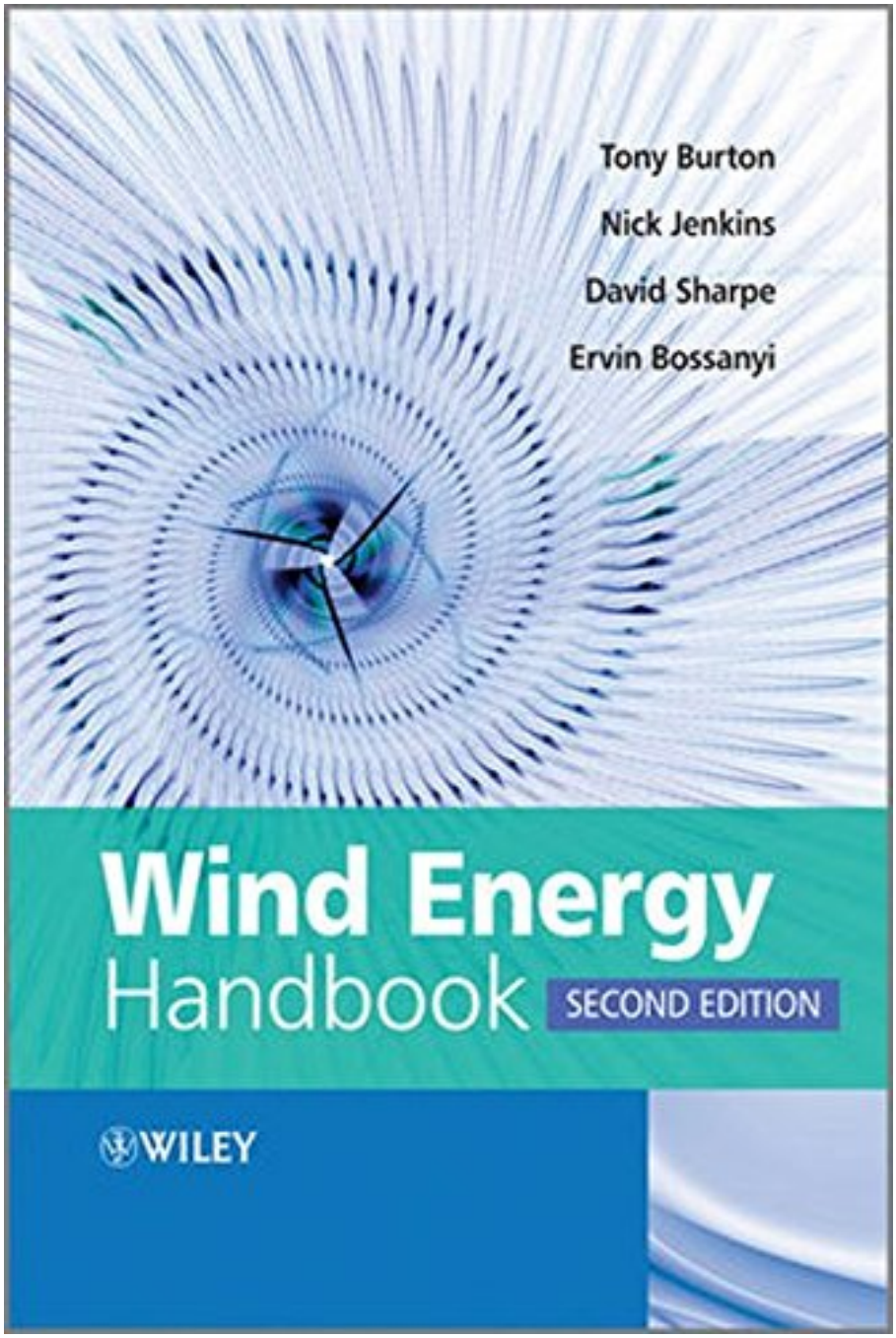
WIND ENERGY HANDBOOK BY TONY BURTON, NICK JENKINS, DAVID SHARPE, ERVIN BOSSANYI





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Review
"I highly recommend the classic and definitive reference book Wind Energy Handbook, Second Edition by Tony Burton, Nick Jenkins, David Sharpe, and Ervin Bossanyi, to any engineering students in undergraduate or graduate studies, teaching academics, practicing engineers, business leaders in technology or electrical utilities, and government policy makers seeking a complete and authoritative overview of design, manufacturing, and installation of horizontal axis wind turbines. This book offers a complete survey of the field, and contains an important section on wind farms as well. Overall, this is a very important and essential addition to any study or practice in the field." (Blog Business World, 19 February 2012)

"If libraries wish to acquire just one book on wind energy, this title is a very good candidate. Summing Up: Highly recommended. Upper-division undergraduates, graduate students, two-year technical program students, researchers/faulty, technicians/professionals, and informed general readers." (Choice, 1 December 2011)

From the Back Cover
The authoritative reference on wind energy, now fully revised and updated to include offshore wind power

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- resource assessment and array losses, optimal machine size and offshore turbine reliability

- wave loading on support structure, including wind and wave load combinations and descriptions of applicable wave theories
- the different types of support structure deployed to date, with emphasis on monopoles, including fatigue analysis in the frequency domain
- the assessment of environmental impacts and the design of the power collection and transmission cable network

Other new coverage features:

- turbulence models updated to reflect the latest design standards, including an introduction to the Mann turbulence model
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- developments in turbine design codes, comparison of options for variable speed opertion, and in-depth treatment of individual blade pitch control
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The major change since the first edition is the addition of a new chapter on offshore wind turbines and offshore wind farm development. Opening with a survey of the present state of offshore wind farm development, the chapter goes on to consider resource assessment and array losses. Then wave loading on support structures is examined in depth, including wind and wave load combinations and descriptions of applicable wave theories. After sections covering optimum machine size and offshore turbine reliability, the different types of support structure deployed to date are described in turn, with emphasis on monopiles, including fatigue analysis in the frequency domain. Final sections examine the assessment of environmental impacts and the design of the power collection and transmission cable network.

New coverage features:

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Ervin Bossanyi, Garrad Hassan & Partners, Ltd, Bristol: a controls engineer, also had an early career at WEG, and continues to work in the wind energy industry.

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