DESCRIPTION

A COMPREHENSIVE REFERENCE TO THE MOST RECENT ADVANCEMENTS IN OFFSHORE WIND TECHNOLOGY

*Offshore Wind Energy Technology* offers a reference based on the research material developed by the acclaimed Norwegian Research Centre for Offshore Wind Technology (NOWITECH) and material developed by the expert authors over the last 20 years. This comprehensive text covers critical topics such as wind energy conversion systems technology, control systems, grid connection and system integration, and novel structures including bottom-fixed and floating. The text also reviews the most current operation and maintenance strategies as well as technologies and design tools for novel offshore wind energy concepts.

The text contains a wealth of mathematical derivations, tables, graphs, worked examples, and illustrative case studies. Authoritative and accessible, *Offshore Wind Energy Technology*:

- Contains coverage of electricity markets for offshore wind energy and then discusses the challenges posed by the cost and limited opportunities
- Discusses novel offshore wind turbine structures and floaters
- Features an analysis of the stochastic dynamics of offshore/marine structures
- Describes the logistics of planning, designing, building, and connecting an offshore wind farm
Written for students and professionals in the field, *Offshore Wind Energy Technology* is a definitive resource that reviews all facets of offshore wind energy technology and grid connection.

## ABOUT THE AUTHOR

**OLIMPO ANAYA-LARA** is a Reader in the Wind Energy and Control Centre at the University of Strathclyde, Glasgow, UK.

**JOHN O. TANDE** is a Chief Scientist with SINTEF Energy Research and Director of NOWITECH, Norway.

**KJETIL UHLEN** is a Professor in Electrical Power Systems at the Norwegian University of Science and Technology (NTNU), Norway.

**KARL MERZ** is a Research Scientist at SINTEF Energy Research, Norway.

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