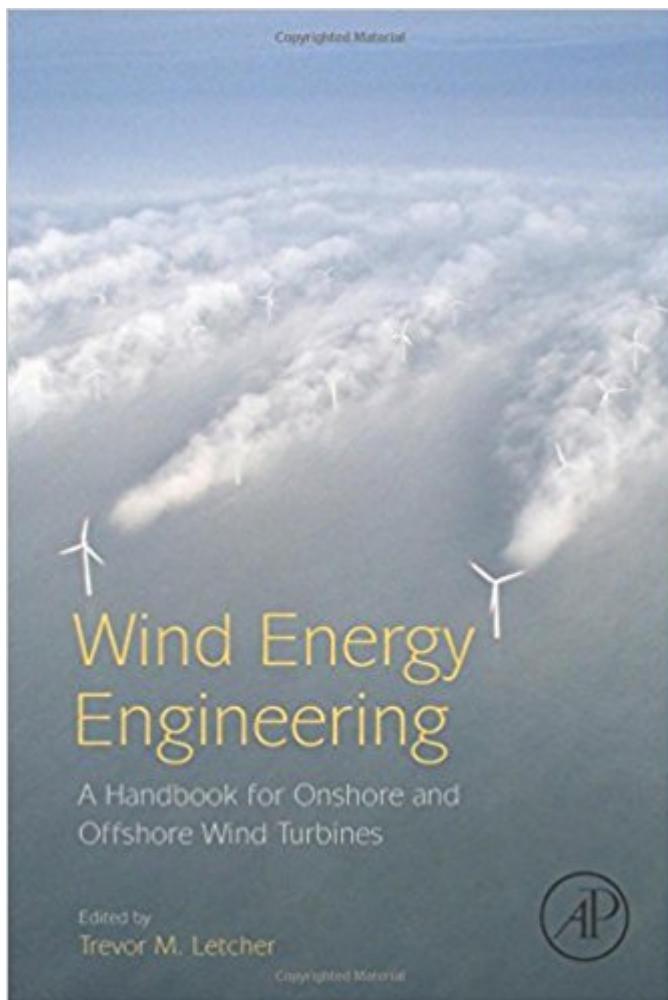


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Wind Energy Engineering: A Handbook For Onshore And Offshore Wind Turbines



Synopsis

Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments. Uses system international (SI) units and imperial units throughout to appeal to global engineers. Offers new case studies from a world expert in the field. Covers the latest research developments in this fast moving, vital subject.

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Trevor M Letcher is Emeritus Professor of Chemistry at the University of KwaZulu-Natal, Durban and a Fellow of the Royal Society of Chemistry. He is a past Director of the International Association

of Chemical Thermodynamics and his research involves the thermodynamics of liquid mixtures and energy from landfill. He was awarded the South African Chemical Institute's Gold medal in 1999 and in 2000 he was awarded the South African Gold medal by the South African Association for the Advancement of Science. He has published over 250 papers in peer review journals and has edited, co-edited and written eleven books in his research and related fields. His latest books include *Unraveling Environmental Disasters* (2012), *Materials for a Sustainable Future* (2012), *Waste* (2011), *Heat Capacities* (2010), *Climate Change* (2009) and *Future Energy* (2008). His leisure activities involve regular hikes with the Mendip Ramblers, woodwork (long case clocks) and wood turning, gardening at home and on his allotment, theatre, reading and playing golf.

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