Meteorology for Wind Energy An Introduction

Lars Landberg

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Clifford Lane

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Meteorology for Wind Energy Lars Landberg, 2015-12-14 Most practitioners within wind energy have only a very basic knowledge about meteorology leading to a lack of understanding of one of the most fundamental subjects in wind energy This book will therefore provide an easy to understand introduction to the subject of meteorology as seen from the viewpoint of wind energy Catering for a range of academic backgrounds the book is mathematically rigorous with accessible explanations for non mathematically oriented readers Through exercises in the text and at the end of each chapter the reader will be challenged to think seek further information and practice the knowledge obtained from reading the book This practical yet comprehensive reference will enable readers to fully understand the theoretical background of meteorology with wind energy in mind and will include topics such as measurements wind profiles wakes modelling turbulence and the fundamentals of atmospheric flow on all scales including the local scale Key features Provides practitioners of wind energy with a solid theoretical grounding in relevant aspects of meteorology enabling them to exercise useful judgment in matters related to resource estimation wind farm development planning turbine design and electrical grids Supports a growing area of professional development with the increasing importance of wind energy estimation in all aspects of electrical energy production from wind Accompanying website includes data sets for exercises in data analysis photographs animations worked examples helping to further bridge the gap between theory and practice Meteorology for Wind Energy An Introduction is aimed at engineers developers and project managers in the wind power and electrical utility sectors without the essential theoretical background required to understand the topic It will also have significant appeal to senior undergraduate and postgraduate students of Wind Energy Environmental Studies or Renewables Studies An Energy Balance Model for Prediction of Surface Temperatures Hans Alexandersson, Lars Meuller, Stefan Gollvik, 1990

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