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Nota di contenuto	Title Page; Copyright; Table of Contents; Preface; Introduction; Acknowledgments; About the Author; List of Symbols; Chapter 1: Introduction; 1.1 Wind Resource Assessment as a Discipline; 1.2 Micro-siting Briefing; 1.3 Cascade of Wind Regime; 1.4 Uncertainty of Wind Resource; 1.5 Scope of the Book; References; Chapter 2: Concepts and Analytical Tools; 2.1 Surface Roughness and Wind Profile; 2.2 Speed-up Effect of Terrain; 2.3 Shelter Effect of Obstacles; 2.4 Summary; References; Chapter 3: Numerical Wind Flow Modelling; 3.1 Modelling Concept Review; 3.2 Linearised Numerical Flow Models 3.3 Mass-Consistent Models3.4 CFD Models; 3.5 Meso Scale NWP Models; 3.6 Inherent Uncertainties in Wind Flow Modelling; 3.7 Summary; References; Chapter 4: Wind Park Physics and Micro-siting; 4.1 Wind Power Density; 4.2 Wind Power Conversion; 4.3 Wind Turbine Wake Effects; 4.4 Wind Turbine Micro-siting; 4.5 Summary; References; Chapter 5: Wind Statistics; 5.1 Statistics Concepts Review; 5.2 Wind Data Time Series; 5.3 Mean Wind Speed of the Whole Time Series; 5.4 Weibull Distribution; 5.5 Estimating Weibull Parameters; 5.6 Extreme

Wind Statistics; 5.7 Summary; References
Chapter 6: Measure-Correlate-Predict6.1 Wind Data Correlation; 6.2 Wind Data Regression and Prediction; 6.3 MCP Methodology for Wind Energy; 6.4 MCP Uncertainty; 6.5 Sources of Reference Data; 6.6 Summary; References; Chapter 7: Wind Park Production Estimate; 7.1 Gross and Net AEP; 7.2 AEP Uncertainty Analysis; 7.3 Natural Variability of Wind; 7.4 Uncertainty in Wind Measurement; 7.5 Uncertainty in Wind Flow Modelling; 7.6 A Case Study; 7.7 Wind Resource Assessment Report; 7.8 Summary; References; Chapter 8: Measuring the Wind; 8.1 Representativeness of the Met Mast
8.2 Cup Anemometer Physics8.3 Met Mast Installation; 8.4 Met Mast Operation and Maintenance; 8.5 Data Validation; 8.6 Alternative Wind Sensors; 8.7 Summary; References; Chapter 9: Atmospheric Circulation and Wind Systems; 9.1 General Concepts; 9.2 Laws and Driving Forces; 9.3 General Atmospheric Circulations; 9.4 Synoptic Scale Wind Systems; 9.5 Meso-scale Wind Systems; 9.6 Micro-scale Winds; Summary; References; Chapter 10: Boundary Layer Winds; 10.1 Atmospheric Stability; 10.2 Orographic Effects; 10.3 Onshore Boundary Layer Winds; 10.4 Offshore Boundary Layer Winds; 10.5 Summary; References
Chapter 11: Environmental Impact Assessment11.1 Biological Impacts; 11.2 Visual Impacts; 11.3 Noise Impacts; 11.4 Weather and Climate Change; 11.5 Public Health and Safety; 11.6 Summary; References; Appendix I: Frequently Used Equations; Appendix II: IEC Classification of Wind Turbines; Appendix III: Climate Condition Survey for a Wind Farm; III.1 Calculating the Ambient Temperature Range; Appendix IV: Useful Websites and Database; Index; End User License Agreement