



Advances in wind turbine blade design and materials: 4. Aerodynamic characteristics of wind turbine blade airfoils (Woodhead Publishing Series in Energy)

W.A. Timmer, C. Bak

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This chapter focuses on airfoils for wind turbine blades and their characteristics. The use of panel codes such as XFOIL and RFOIL and CFD codes for the prediction of airfoil characteristics is briefly described. The chapter then discusses the requirements for wind turbine blade airfoils and the effect of leading edge roughness and Reynolds number. After a description of how airfoils can be tested the chapter discusses methods to represent airfoil characteristics at high angles of attack. A number of methods for correcting characteristics for the effect of three-dimensional flow on the blade are presented. The chapter then discusses ways to establish a data set for blade design and concludes with a view on future research in the field of wind turbine blade airfoils.

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