



**Advances in wind turbine blade design and materials: 13. Design, manufacture and testing of small wind turbine blades (Woodhead Publishing Series in Energy)**

*P.D. Clausen, F. Reynal, D.H. Wood*

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Small wind turbine blades share a number of features with large blades, but have some important differences. The two main differences are their much higher rotational speed, which causes more fatigue cycles and higher yaw moments, and their operation at low Reynolds number, which means that thick aerofoil sections cannot be used near the root. This chapter discusses the design challenges arising from these differences, the materials commonly used for blade manufacture, and the fatigue testing of small blades. The use of timber is highlighted for very small blades, and fibre-reinforced composite manufacture of larger ones is discussed in terms of sustainability, conformity of manufactured shape, and fatigue behaviour.

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