



**Advances in wind turbine blade design and materials: 7. Effects of resin and reinforcement variations on fatigue resistance of wind turbine blades (Woodhead Publishing Series in Energy)**

*J.F. Mandell, D.D. Samborsky, D.A. Miller*

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This chapter explores the influence of resin and reinforcing fabric variations on the fatigue sensitivity for a wide range of typical blade laminates reported recently in the SNL/MSU/DOE database. Test results are presented for static and fatigue property variations with resin type, reinforcing fabric construction and weight, fiber content and laminate construction. Critical resin/fabric interactions and damage mechanisms are identified. The effects of resin and fiber type are also explored for material transitions at ply drops, where ply delamination is the dominant damage.

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