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Experimental Study On Delamination, Mechanical Loads And Tool Wear In Drilling Of Woven Composite Laminates (ISF Publications Series)

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**Experimental Study on Delamination,
Mechanical Loads and Tool Wear in Drilling
of Woven Composite Laminates**

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Synopsis

The specific material properties of fiber-reinforced plastics (FRP) and their potential application for lightweight structures lead to a growing demand in the field of aircraft and automobile industry, among other things to replace conventional materials. The requirements for drilling FRP complicates safe process control, where the common wear mechanisms on the tool and the incipient damage mechanisms in the material lead to deterioration of the quality of the product. The content of this book therefore deal with the experimental exploration of the drilling process on textile reinforced carbon (CFRP) and glass fiber Epoxy (Fiberglass), so called composites. In the studies, uncoated carbide drills used with different shapes and the feed force occurring during the drilling and the drilling torque measured.

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