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FATIGUE MODES IN COMPOSITES In a unidirectional single layer composite three fatigue failure modes can occur: fiber breakage, matrix cracking and fiber-matrix debonding. Fiber Breakage has a strong dependence on fiber strength. Matrix cracking can be postponed if the fibers have high stiffness which limits the

### FATIGUE OF COMPOSITES

Fatigue analysis of textile composites: (a) flow chart of the calculation; (b) stages A, B, C of fatigue cycle jump; (c) redistribution of stresses after fatigue damage. The outlined approach was applied to cross-ply UD laminates ( Lian and Yao, 2010 , Shokrieh and Lessard, 2000 ) and to woven composites ( Hanaki et al., 2007 , Kari et al., 2008 ).

### Modelling high-cycle fatigue of textile composites on the ...

From a certain point of view, fatigue in composites and fatigue in metals are similar: both begin with damage initiation, followed by damage propagation, and end in ultimate failure. Fatigue life  $N_f$ , or number of cycles to failure, for both can be thought of as the sum of the cycles during damage initiation  $N_i$  and the cycles during damage propagation  $N_p$ .

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The fatigue failure mode of composite materials is an ex- plicit function of the angle between the fi ber direction and the applied load; higher fatigue stresses are attrib- uted to smaller angles.

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Maximum tensile stress-N fatigue curves of the inver- tigated composites are reported in Figure 2(a). It is immediately evident the relatively low fatigue sensitivity of CF200 laminate, while the higher tensile strength of BF200 with respect to GF200 is responsible for the better fatigue performance of the basalt laminate.