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PROBABILISTIC SIMULATION OF COMBINED THERMO-MECHANICAL CYCLIC FATIGUE IN COMPOSITES



Probabilistic Simulation of
Combined Thermo-Mechanical
Cyclic Fatigue in Composites

NASA Technical Reports Server
(NTRS)

Bibliogov, United States, 2013. Paperback. Book Condition: New. 239 x 180 mm. Language: English . Brand New Book ***** Print on Demand *****.A methodology to compute probabilistically-combined thermo-mechanical fatigue life of polymer matrix laminated composites has been developed and is demonstrated. Matrix degradation effects caused by long-term environmental exposure and mechanical/thermal cyclic loads are accounted for in the simulation process. A unified time-temperature-stress-dependent multifactor-interaction relationship developed at NASA Glenn Research Center has been used to model the degradation/aging of material..

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