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## PROBABILISTIC SIMULATION OF COMBINED THERMO-MECHANICAL CYCLIC FATIGUE IN COMPOSITES (PAPERBACK)



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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