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Computational Modeling of Damage and Fracture in Composite Materials

By Leandro Maio

SPS Jan 2015, 2015. Taschenbuch. Book Condition: Neu. 221x151x15 mm. Neuware - The work is focused on the study of damage and fracture mechanics with emphasis to composite materials which are widely employed in the aerospace industry. For this purpose, a cohesive-frictional model for the prediction of interlaminar damage and a non-local constitutive model for intralaminar progressive damage simulation in composite laminated structures were defined. The proposed constitutive models were developed for commercial finite element software ABAQUS by means of user-defined material subroutine written in FORTRAN. To verify the effectiveness of the implemented models numerical simulations were conducted and validated by experimental results available from literature. 128 pp. Englisch.



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