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# A SEMI-ANALYTICAL METHOD FOR DETERMINING THE ENERGY RELEASE RATE OF CRACKS IN ADHESIVELY-BONDED SINGLE-LAP COMPOSITE JOINTS



A Semi-Analytical Method for  
Determining the Energy Release Rate  
of Cracks in Adhesively-Bonded Single-  
Lap Composite Joints

NASA Technical Reports Server  
(NTRS), et al., Charles Yang

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.A semi-analytical method for determining the strain energy release rate due to a prescribed interface crack in an adhesively-bonded, single-lap composite joint subjected to axial tension is presented. The field equations in terms of displacements within the joint are formulated by using first-order shear deformable, laminated plate theory together with kinematic relations and force equilibrium conditions. The stress...

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- Authored by Charles Yang
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