

A Numerical Study of Adherend Geometry on the Stress Distribution in Adhesively Lap Joint

Authors : Ahmet Calik

Abstract : In present study, the effect of adherend geometry on the tensile strength of adhesively single lap aluminum structures joint, bonded was numerically studied using by three dimensional finite element model. Six joint model were investigated. Analyses were performed in ANSYS commercial software. The results shows that the adherends shape has the highest effect on peel and shear stresses.

Keywords : adhesive, adherend, single lap joints, finite element

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