

Evaluation of Structural Integrity for Composite Lattice Structure

Authors : Jae Moon Im, Kwang Bok Shin, Sang Woo Lee

Abstract : In this paper, evaluation of structural integrity for composite lattice structure was conducted by compressive test. Composite lattice structure was manufactured by carbon fiber using filament winding method. In order to evaluate the structural integrity of composite lattice structure, compressive test was done using anti-buckling fixture. The delamination occurred 84 Tons of compressive load. It was found that composite lattice structure satisfied the design requirements.

Keywords : composite material, compressive test, lattice structure, structural integrity

Conference Title : ICACACM 2017 : International Conference on Aviation Composites and Advanced Composite Materials

Conference Location : San Francisco, United States

Conference Dates : September 28-29, 2017