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## Experimental study of impact on carbon-fiber-epoxy composite wing leading edge structure (Conference Paper)

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### Abstract

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This paper works on the curvature composite structure for wing leading edge application using fabric carbon/epoxy material subjected to impact loading. At first stage, rigid spherical projectile and elliptical panel with were used. The impact testing has been carried out by varying the radius of curvature, the thickness of the panel and different stacking sequence. The experimental results show the trend of specific energy absorption capability of structure in function of the radius, thickness of panel and carbon fiber directions. © (2014) Trans Tech Publications, Switzerland.

### Author keywords

Composite Energy absorption Impact loading Wing leading edge

### Indexed keywords

Carbon fiber directions

Composite wing

Impact loadings

Radius of curvature

Specific energy absorption

Spherical projectiles

Stacking sequence

Wing leading edges

Engineering controlled terms:

Carbon fibers Composite materials Energy absorption Impact testing Wings

Engineering main heading:

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