

Boeing Simulates Thermal Expansion in Composites with Expanded Metal Foil for Lightning Protection of Aircraft Structures

Modern aircraft such as the Boeing 787 Dreamliner are comprised of more than fifty percent carbon fiber composite requiring the addition of expanded metal foil for lightning strike protection. Researchers at Boeing are using simulation to verify that protective coatings on the metal foil will not fail due to thermal stress arising from a typical flight cycle.

BY JENNIFER A. SEGUI

The Boeing 787 Dreamliner is innovative in that it is comprised of more than fifty percent carbon fiber reinforced plastic (CFRP) due to the material's light weight and exceptional strength. Figure 1 shows the extensive use of composite materials throughout the aircraft. Although CFRP composites

inherently have many advantages, they cannot mitigate the potentially damaging electromagnetic effects from a lightning strike. To solve this problem, electrically conductive expanded metal foil (EMF) can be added to the composite structure layout to rapidly dissipate excessive current

and heat for lightning protection of CFRP in aircraft.

Engineers at Boeing Research and Technology (BR&T) are using multiphysics simulation and physical measurements to investigate the effect of the EMF design parameters on thermal stress and displacement



FIGURE 1. Advanced composites used throughout the Boeing 787 account for more than fifty percent of the aircraft body¹.

Boeing Composites Design Manual

James A. Quinn



Boeing Composites Design Manual:

Scientific and Technical Aerospace Reports ,1989 **Advances in Composite Materials** A. R. Bunsell,2013-10-02

Advances in Composite Materials is a collection of papers that discusses fiber reinforced composite materials pertaining to their mechanical and failure properties One paper explains the design and fabrication of a GrFRP concept car by the Ford Motor Company which uses as much as possible graphite fiber in the body chassis and powertrain Another paper discusses the sorption behavior of glass fiber reinforced composites as well as the influence of diffusing media on the deformation and failure behaviors One paper examines the physical elastic viscoelastic and inelastic properties of multiphase short fiber composite materials using the fiber aspect ratio fiber volume fraction and properties of the constituent phases as several variables Another paper describes a procedure to measure the changes in stiffness properties of a unidirectional fibrous composite such as glass fiber reinforced polyester caused by fatigue damage One application of carbon fiber reinforced thermoplastics is in a sleeve bush molded from nylon 66 containing 30 percent fiber reinforcement with PTFE and silicone oil The material has low frictional high wear performance characteristics The Penny and Giles Potentiometers Ltd use this component on a joystick for gun directional control The collection can prove useful for design engineers materials engineers scientists involved with composite materials and industrial researchers in the fields of materials science **Analytical and**

Experimental Investigation of Aircraft Metal Structures Reinforced with Filamentary Composites S. Oken,1973

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