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 layup 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

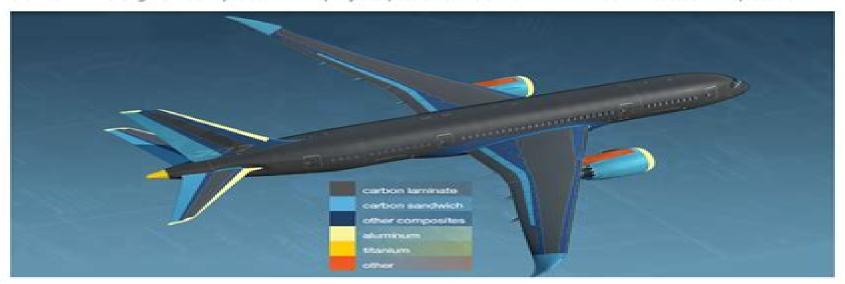


FIGURE 1. Advanced composites used throughout the Boeing 787 account for more than fifty percent of the aircraft body".

Boeing Composites Design Manual

L. L. Bryson

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Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Handbook of Aluminum Bonding Technology and Data J. D. Minford, 1993-06-16 A **Technical Information Database** reference that offers comprehensive discussions on every important aspect of aluminum bonding for each level of manufacturing from mill finished to deoxidized conversion coated anodized and painted surfaces and provides an extensive up to date review of adhesion science covering all significa Reinforced Plastics Handbook Donald V Rosato, Dominick V Rosato. 2004-12-15 In this 3rd Edition of the Reinforced Plastics Handbook the authors have continued the approach of the late John Murphy author of the first and second editions The book provides a compendium of information on every aspect of materials processes designs and construction Fiber reinforced plastics are a class of materials in which the basic properties of plastics are given mechanical reinforcement by the addition of fibrous materials. The wide choice of plastics resin matrices and the correspondingly wide choice of reinforcing materials mean that the permutations are virtually unlimited But the optimum properties of resin and reinforcement cannot be obtained unless there is an effective bond between the two and this is the continuing objective of reinforced plastics production design and processing New 3rd edition of this comprehensive practical manual This is a bible for all those involved in the reinforced plastics industry whether manufacturers specifiers designers or end users Has been completely revised and updated to reflect all the latest developments in the industry

Third NASA Advanced Composites Technology Conference, Volume 1, Part 2, 1992 Analytical and Experimental Investigation of Aircraft Metal Structures Reinforced with Filamentary Composites. Phase 3: Major Component Development MFPG Mechanical Failures Prevention Group. Meeting, 1982 **Fundamentals of Composites and** L. L. Bryson, 1973 **Their Methods of Fabrications** Bahram Farahmand, 2025-04-03 This book provides readers with essential insights into composite materials encompassing methods for fabricating composite parts PMCs MMCs CMCs determining their mechanical properties via coupon testing and rule of mixtures and exploring their industrial applications Additionally the book covers topics of interest for engineers including damage tolerance analysis nondestructive inspections repairing damaged composite and metallic parts and fabricating composite parts using additive manufacturing processes Drawing on his years of experience in the aerospace industry the author believes the topics presented will be valuable to readers and that engineers in industries students in academia and university instructors will find this book beneficial Introduces progressive failure analysis fatique and fracture of composite molecular dynamics virtual testing with several practical example problems Explores additive manufacturing methods and their application in fabricating PMCs and assessing mechanical properties Introduces nanocomposites and their fabrication methods detailing advantages and disadvantages of the parts produced

Analytical and Experimental Investigation of Aircraft Metal Structures Reinforced with Filamentary

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 - The Rise of Digital Reading Boeing Composites Design Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Boeing Composites Design Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Boeing Composites Design Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Boeing Composites Design Manual
 - Personalized Recommendations
 - Boeing Composites Design Manual User Reviews and Ratings
 - Boeing Composites Design Manual and Bestseller Lists
- 5. Accessing Boeing Composites Design Manual Free and Paid eBooks
 - Boeing Composites Design Manual Public Domain eBooks
 - Boeing Composites Design Manual eBook Subscription Services
 - Boeing Composites Design Manual Budget-Friendly Options

- 6. Navigating Boeing Composites Design Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Boeing Composites Design Manual Compatibility with Devices
 - Boeing Composites Design Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Boeing Composites Design Manual
 - Highlighting and Note-Taking Boeing Composites Design Manual
 - o Interactive Elements Boeing Composites Design Manual
- 8. Staying Engaged with Boeing Composites Design Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Boeing Composites Design Manual
- 9. Balancing eBooks and Physical Books Boeing Composites Design Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Boeing Composites Design Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Boeing Composites Design Manual
 - Setting Reading Goals Boeing Composites Design Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Boeing Composites Design Manual
 - Fact-Checking eBook Content of Boeing Composites Design Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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