

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

Snorri Gudmundsson



Boeing Composites Design Manual:

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 **Composite Materials** James Martin Whitney, 1986 **Scientific and Technical Aerospace Reports**, 1995 *Handbook of Aluminum Bonding Technology and Data* J. D. Minford, 1993-06-16 A 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 significant Composite Materials Samuel P. Garbo, 1990 Annotation Papers from the symposium held April 1988 in Sparks Nevada The focus is on significant advances in the area of damage tolerance and durability of composite structures Twenty seven contributions address delamination initiation and growth analysis damage mechanisms and test procedures and other general interest design and analysis topics Annotation copyrighted by Book News Inc Portland OR 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 **General**

Aviation Aircraft Design Snorri Gudmundsson, 2021-10-31 General Aviation Aircraft Design Second Edition continues to be the engineer's best source for answers to realistic aircraft design questions. The book has been expanded to provide design guidance for additional classes of aircraft including seaplanes, biplanes, UAS, high speed business jets, and electric airplanes. In addition to conventional powerplants, design guidance for battery systems, electric motors, and complete electric powertrains is offered. The second edition contains new chapters: Thrust Modeling for Gas Turbines, Longitudinal Stability and Control, Lateral and Directional Stability and Control. These new chapters offer multiple practical methods to simplify the estimation of stability derivatives and introduce hinge moments and basic control system design. Furthermore, all chapters have been reorganized and feature updated material with additional analysis methods. This edition also provides an introduction to design optimization using a wing optimization as an example for the beginner. Written by an engineer with more than 25 years of design experience, professional engineers, aircraft designers, aerodynamicists, structural analysts, performance analysts, researchers, and aerospace engineering students will value the book as the classic go-to for aircraft design. The printed book is now in color with 1011 figures and illustrations. Presents the most common methods for conceptual aircraft design. Clear presentation splits text into shaded regions separating engineering topics from mathematical derivations and examples. Design topics range from the new 14 CFR Part 23 to analysis of ducted fans. All chapters feature updated material with additional analysis methods. Many chapters have been reorganized for further help. Introduction to design optimization is provided using a wing optimization as an example for the beginner. Three new chapters are offered, two of which focus on stability and control. These offer multiple practical methods to simplify the estimation of stability derivatives. The chapters introduce hinge moments and basic control system design. Real world examples using aircraft such as the Cirrus SR 22 and Learjet 45.

Polymer Matrix Composites: Materials Usage, Design, and Analysis Composite Materials Handbook - 17 (CMH-17), 2025-10-16 The third volume of this six volume compendium provides methodologies and lessons learned for the design, analysis, manufacture, and field support of fiber reinforced polymeric matrix composite structures. It also provides guidance on material and process specifications and procedures for using the data that is presented in Volume 2. The information provided is consistent with the guidance provided in Volume 1 and is an extensive compilation of the current knowledge and experiences of engineers and scientists from industry, government, and academia who are active in composites. The Composite Materials Handbook, referred to by industry groups as CMH 17, is a six volume engineering reference tool that contains over 1,000 records of the latest test data for polymer matrix, metal matrix, ceramic matrix, and structural sandwich composites. CMH 17 provides information and guidance necessary to design and fabricate end items from composite materials. It includes properties of composite materials that meet specific data requirements as well as guidelines for design, analysis, material selection, manufacturing, quality control, and repair. The primary purpose of the handbook is to standardize

engineering methodologies related to testing data reduction and reporting of property data for current and emerging composite materials It is used by engineers worldwide in designing and fabricating products made from composite materials ISBN 9781468609981 9781468609998 DOI <https://doi.org/10.4271/R.640> Third NASA Advanced Composites Technology Conference, Volume 1, Part 2 ,1992 **Advancing with Composites '94: Design and applications** ,1994

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