

# **AIRBUS DAMAGE TOLERANCE METHODOLOGIES FOR COMPOSITE STRUCTURES**

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## **SUMMARY**

This is an overview of the damage tolerance approaches and methodologies used for the design, certification and maintenance of composite structures at Airbus. It covers impact threat, damage detectability, inspection program, fatigue, tests and analyses. It is intended to provide directions for future research in the area of composite damage tolerance.

*Keywords: Damage Tolerance, Impact, Composites, Detectability, Aircraft*

## **DAMAGE TOLERANCE APPROACH**

The starting point for setting the DT (damage tolerance) philosophy is the regulation which consists of requirements defined by the airworthiness authorities. Policies for means of compliance are defined by interpreting the requirements.

### **Impact Threat**

Impact threat is defined by analysing damage data recorded in service. The threat is different depending on the location of the aircraft. Large amount of data covering long enough service time and large enough fleet size is essential for producing statistically significant impact threat.

### **Damage Detectability**

Damage detectability is represented by BVID (Barely Visible Impact Damage). It is dependent on the type of inspection and is determined by analysis of detectability test data. BVID is defined for transverse impact and edge impact.

### **Inspection programs**

Determined using a probabilistic analysis taking into account impact threat, probability of detection, load occurrence, residual strength variation, etc.

### **Large Damage Capability**

# Airbus Damage Tolerance Methodologies For Composite Structures

**Jessica J Manson**



## **Airbus Damage Tolerance Methodologies For Composite Structures:**

**Scientific and Technical Aerospace Reports**, 1992      *Course On Emerging Techniques For Damage Prediction And Failure Analysis Of Laminated Composite Structures* Éditions Cépaduès, 2008-01-08 The course deals with the crucial central question how can one predict the evolution of damage up to and including final fracture Emerging yet mature answers will be presented First a description of today's common approaches in industrial environments will be given along with their limits regarding the design and calculation of stratified composite structures The course also emphasizes the damage mesomodel initiated at LMT Cachan and used today in a number of calculation codes This advanced yet pragmatic tool for the prediction of damage in stratified materials has become mature thanks particularly to the works of LMT Cachan on its relation to micromechanics EADS Innovation Works on its identification and DLR on its application to impact and crash problems The course aims to give engineers and researchers the most complete view possible of the state of the art and emerging techniques in damage prediction and failure analysis of laminated composite structures      **Polymer Matrix Composites:**

**Materials Usage, Design, and Analysis** Composite Materials Handbook - 17 (CMH-17), 2012-07-10 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      **Proceedings of the American Society for**

**Composites, Seventeenth Technical Conference** C. T. Sun, 2002-10-24      Structural Health Monitoring S. Xue, 2025-03-25 Structural Health Monitoring SHM technology has become increasingly important in civil maritime and aerospace applications The present book focusses particularly on early warning systems loss prevention and structural safety assurance Keywords Damage Diagnosis Vibration Monitoring Wireless Monitoring Hybrid Modelling Structural Health Monitoring Cracks in CFRP Laminates Deep Learning Based Prognostics Low Velocity Impacts Excavation Methods Large Scale Geomembrane Covers Helicopter Gearbox Sensing Harmonic Vibration Analysis Seismic Control Repeated Earthquakes

Composite Fuselage Vibration of Long Span Bridges Machine Learning      **Unsettled Technology Areas in Deterministic Assembly Approaches for Industry 4.0** Thorsten Roye,2021-08-20 Increased production rates and cost reduction are affecting manufacturing in all mobility industry sectors One enabling methodology that could achieve these goals in the burgeoning Industry 4 0 environment is the optimized deterministic assembly DA approach It always forms the same final structure and has a strong link to design for assembly and design for automation The entire supply chain is considered with drastic savings at the final assembly line level through recurring costs and lead time reduction Unsettled Technology Areas in Deterministic Assembly Approaches for Industry 4 0 examines the evolution of previous assembly principles that lead up to and enable the DA approach related simulation methodologies and undefined and unsolved links between these domains Click here to access the full SAE EDGETM Research Report portfolio <https://doi.org/10.4271/EPR2021018>      Composite structures damage tolerance analysis methodologies ,2012      **The Composite Materials Handbook-MIL 17** American Society for Testing and Materials,2002 A government publication that contains extensive information on the design fabrication and use of composite materials It provides guidelines and material properties for polymer organic metal and ceramic matrix composite materials The first three volumes focus on but are not limited to polymeric composites intended for aircraft and aerospace vehicles Metal matrix composites MMC and ceramic matrix composites CMC are covered in volumes 4 and 5      Modeling the Effect of Damage in Composite Structures Christos Kassapoglou,2015-05-06 Comprehensively covers new and existing methods for the design and analysis of composites structures with damage present Provides efficient and accurate approaches for analysing structures with holes and impact damage Introduces a new methodology for fatigue analysis of composites Provides design guidelines and step by step descriptions of how to apply the methods along with evaluation of their accuracy and applicability Includes problems and exercises Accompanied by a website hosting lecture slides and solutions      NASA SP. ,1992      *Damage Tolerance in Advanced Composites* Golam Newaz,Robert L. Sierakowski,2018-12-13 This recent book provides a detailed presentation of damage tolerance assessment and characterization methods for advanced composites as well as an examination of the role of damage tolerance in the design of composites Included are analytical models for different types of damage in different composite materials Tables provide helpful reference      **Aeronautical Engineering** ,1992 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA      *Advanced Organic Composite Materials for Aircraft Structures* National Research Council (U.S.). Committee on the Status and Viability of Composite Materials for Aircraft Structures,1987      **Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 261)** ,1991      *Aeronautical Engineering: 1983 Cumulative Index* ,1984      **International Aerospace Abstracts** ,1999      Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 312) ,1994

**The Aeronautical Journal** ,1996

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