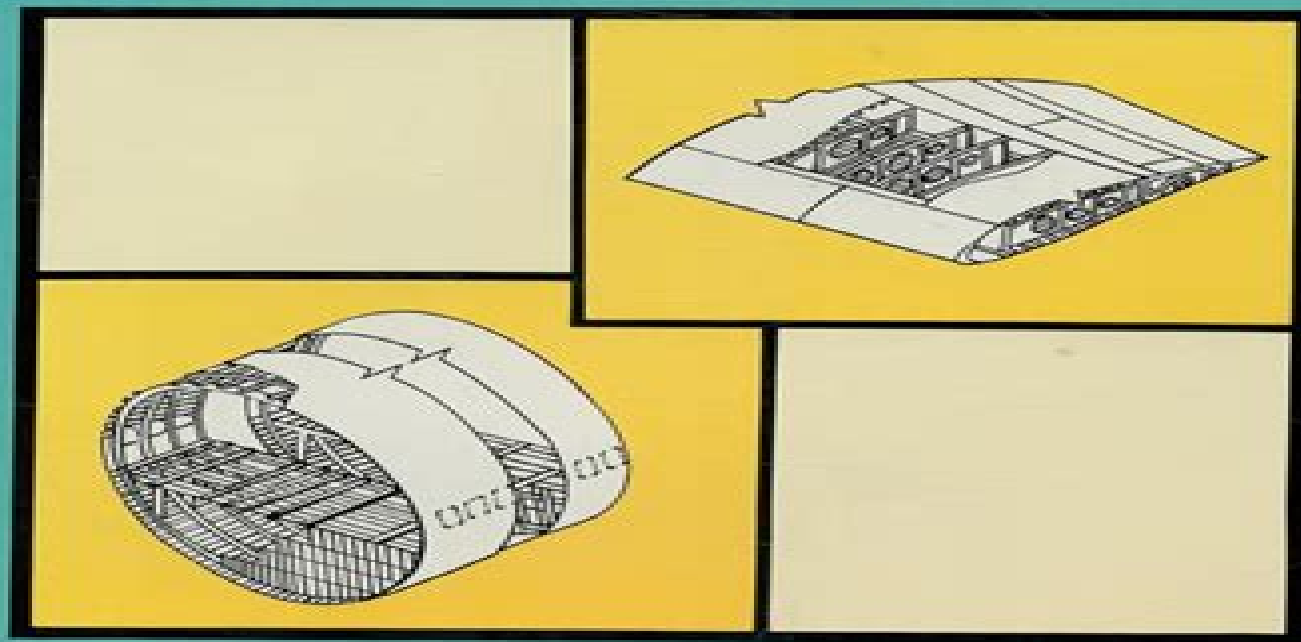


# **AIRFRAME STRUCTURAL DESIGN**

**PRACTICAL DESIGN INFORMATION  
AND DATA ON  
AIRCRAFT STRUCTURES**



**MICHAEL C. Y. NIU**

# Airframe Structural Design Practical Design Information And Data On Aircraft Structures

**Christian Mittelstedt**



## **Airframe Structural Design Practical Design Information And Data On Aircraft Structures:**

*Airframe Structural Design* Chunyun Niu, Michael Chun-Yung Niu, 1999      **Airframe Structural Design** Chunyun Niu, 2006      *Advanced Aircraft Design* Egbert Torenbeek, 2013-05-28 Although the overall appearance of modern airliners has not changed a lot since the introduction of jetliners in the 1950s their safety efficiency and environmental friendliness have improved considerably Main contributors to this have been gas turbine engine technology advanced materials computational aerodynamics advanced structural analysis and on board systems Since aircraft design became a highly multidisciplinary activity the development of multidisciplinary optimization MDO has become a popular new discipline Despite this the application of MDO during the conceptual design phase is not yet widespread *Advanced Aircraft Design Conceptual Design Analysis and Optimization of Subsonic Civil Airplanes* presents a quasi analytical optimization approach based on a concise set of sizing equations Objectives are aerodynamic efficiency mission fuel empty weight and maximum takeoff weight Independent design variables studied include design cruise altitude wing area and span and thrust or power loading Principal features of integrated concepts such as the blended wing and body and highly non planar wings are also covered The quasi analytical approach enables designers to compare the results of high fidelity MDO optimization with lower fidelity methods which need far less computational effort Another advantage to this approach is that it can provide answers to what if questions rapidly and with little computational cost Key features Presents a new fundamental vision on conceptual airplane design optimization Provides an overview of advanced technologies for propulsion and reducing aerodynamic drag Offers insight into the derivation of design sensitivity information Emphasizes design based on first principles Considers pros and cons of innovative configurations Reconsiders optimum cruise performance at transonic Mach numbers *Advanced Aircraft Design Conceptual Design Analysis and Optimization of Subsonic Civil Airplanes* advances understanding of the initial optimization of civil airplanes and is a must have reference for aerospace engineering students applied researchers aircraft design engineers and analysts      **Airframe Structural Design** Chunyun Niu, Ch'un-yün Niu, 1988      *Wing Engineering: Aerodynamics, Structures And Design* Samuel Merryisha, Parvathy Rajendran, 2023-10-11 The advancement of flight science and technology has shown much boom contribution towards the aircraft wing and its retrofitting Looking into the aircraft wing variants they have a huge range of configurations with their individualities by commercial and military usage This book concentrates on aircraft wings with an elaborated wing introduction and is primarily concerned with aircraft wing performance It complements other books in the market by concentrating only on aircraft wings and their functionalities The main objective of this book is to reach the beginning graduate level students by providing them with the basic concept behind the aircraft wing The expected audience of the book would ideally be the high school and undergraduate students who have much ingenuity towards aircraft wings and their concepts      *Design and Analysis of Structural Joints with Composite Materials* Rikard Benton Heslehurst, 2013 Book presents a comprehensive set of design and analysis equations as

well as technical steps to enable engineers and technicians to produce and test effective structural joints using composite materials and explaining how composites joints differ from ones made of metal      *Collaborative Product and Service Life Cycle Management for a Sustainable World* Richard Curran, Shuo-Yan Chou, Amy J. C. Trappey, 2008-08-31 Collaborative Product and Service Life Cycle Management for a Sustainable World gathers together papers from the 15th ISPE International Conference on Concurrent Engineering CE2008 to stimulate the new thinking that is so crucial to our sustained productivity enhancement and quality of life It is already evident in this new century that the desire for sustainable development is increasingly driving the market to reach for new and innovative solutions that more effectively utilize the resources we have inherited from previous generations with the obvious responsibility to future generations Human productivity and progress can be positively engineered and managed in harmony with the provision and needs of our natural environment One century on from the industrial revolution this is now the time of the sustainable revolution requiring holistic technological process and people integrated solutions to sustained socio economic enhancement      *ICAF 2019 - Structural Integrity in the Age of Additive Manufacturing* Antoni Niepokolczycki, Jerzy Komorowski, 2019-07-03 This book gathers papers presented at the 36th conference and 30th Symposium of the International Committee on Aeronautical Fatigue and Structural integrity Focusing on the main theme of Structural Integrity in the Age of Additive Manufacturing the chapters cover different aspects concerning research developments and challenges in this field offering a timely reference guide to designers regulators manufacturer and both researchers and professionals of the broad aerospace community

**Information Sources in Engineering** Roderick A. Macleod, Jim Corlett, 2012-04-17 The current thoroughly revised and updated edition of this approved title evaluates information sources in the field of technology It provides the reader not only with information of primary and secondary sources but also analyses the details of information from all the important technical fields including environmental technology biotechnology aviation and defence nanotechnology industrial design material science security and health care in the workplace as well as aspects of the fields of chemistry electro technology and mechanical engineering The sources of information presented also contain publications available in printed and electronic form such as books journals electronic magazines technical reports dissertations scientific reports articles from conferences meetings and symposiums patents and patent information technical standards products electronic full text services abstract and indexing services bibliographies reviews internet sources reference works and publications of professional associations Information Sources in Engineering is aimed at librarians and information scientists in technical fields as well as non professional information specialists who have to provide information about technical issues Furthermore this title is of great value to students and people with technical professions      *Structural Mechanics in Lightweight Engineering* Christian Mittelstedt, 2021-07-01 This book provides a comprehensive yet concise presentation of the analysis methods of lightweight engineering in the context of the statics of beam structures and is divided into four sections Starting from very general

remarks on the fundamentals of elasticity theory the first section also addresses plane problems as well as strength criteria of isotropic materials The second section is devoted to the analytical treatment of the statics of beam structures addressing beams under bending shear and torsion The third section deals with the work and energy methods in lightweight construction spanning classical methods and modern computational methods such as the finite element method Finally the fourth section addresses more advanced beam models discussing hybrid structures as well as laminated and sandwich beams in addition to shear field beams and shear deformable beams This book is intended for students at technical colleges and universities as well as for engineers in practice and researchers in engineering

Topology Optimization in Engineering Structure Design Jihong Zhu,Tong Gao,2016-11-08 Topology Optimization in Engineering Structure Design explores the recent advances and applications of topology optimization in engineering structures design with a particular focus on aircraft and aerospace structural systems To meet the increasingly complex engineering challenges provided by rapid developments in these industries structural optimization techniques have developed in conjunction with them over the past two decades The latest methods and theories to improve mechanical performances and save structural weight under static dynamic and thermal loads are summarized and explained in detail here in addition to potential applications of topology optimization techniques such as shape preserving design smart structure design and additive manufacturing These new design strategies are illustrated by a host of worked examples which are inspired by real engineering situations some of which have been applied to practical structure design with significant effects Written from a forward looking applied engineering perspective the authors not only summarize the latest developments in this field of structure design but also provide both theoretical knowledge and a practical guideline This book should appeal to graduate students researchers and engineers in detailing how to use topology optimization methods to improve product design Combines practical applications and topology optimization methodologies Provides problems inspired by real engineering difficulties Designed to help researchers in universities acquire more engineering requirements

**Advances in Integrated Design and Production II** Lahcen Azrar,Abdelilah Jalid,Samir Lamouri,Ali Siadat,Mourad Taha Janan,Fakher Chaari,Mohamed Haddar,2023-05-02 This book reports on innovative concepts and practical solutions at the intersection between engineering design production and industrial management It covers cutting edge design modeling and control of dynamic and multiphysics systems knowledge management systems in industry 4 0 cyber physical production systems additive and sustainable manufacturing and many other related topics It also highlights important collaborative works between different countries and between industry and universities Gathering the proceedings of the 12th International Conference on Integrated Design and Production CPI 2022 held on May 10 12 2022 at cole Nationale Sup rieure d Arts et M tiers ENSAM in Rabat Morocco this book gathers carefully peer reviewed chapters with extensive information for researchers and professionals in the broad area of engineering design production and management

*Advanced Aerospace Materials* Haim Abramovich,2023-04-27 This book is for engineers and

students of aerospace materials and mechanical engineering It covers the transition from aluminum to composite materials for aerospace structures and includes advanced analyses used in industries New in the 2nd Edition is material on morphing structures large deflection plates nondestructive methods vibration correlation technique for shear loaded plates vibrations to measure physical properties and more *Care and Repair of Advanced Composites* Keith B Armstrong, Graham Bevan, William Cole, 2005-06-22 This second edition has been extensively updated to keep pace with the growing use of composite materials in commercial aviation A worldwide reference for repair technicians and design engineers the book is an outgrowth of the course syllabus that was developed by the Training Task Group of SAE's Commercial Aircraft Composite Repair Committee CACRC and published as SAE AIR 4938 Composite and Bonded Structure Technician Specialist Training Document Topics new to this edition include Nondestructive Inspection NDI Methods Fasteners for Composite Materials A Method for the Surface Preparation of Metals Prior to Adhesive Bonding Repair Design Although this book has been written primarily for use in aircraft repair other applications including marine and automotive are also covered [Introduction to Aerospace Materials](#) Adrian P Mouritz, 2012-05-23 The structural materials used in airframe and propulsion systems influence the cost performance and safety of aircraft and an understanding of the wide range of materials used and the issues surrounding them is essential for the student of aerospace engineering Introduction to aerospace materials reviews the main structural and engine materials used in aircraft helicopters and spacecraft in terms of their production properties performance and applications The first three chapters of the book introduce the reader to the range of aerospace materials focusing on recent developments and requirements Following these introductory chapters the book moves on to discuss the properties and production of metals for aerospace structures including chapters covering strengthening of metal alloys mechanical testing and casting processing and machining of aerospace metals The next ten chapters look in depth at individual metals including aluminium titanium magnesium steel and superalloys as well as the properties and processing of polymers composites and wood Chapters on performance issues such as fracture fatigue and corrosion precede a chapter focusing on inspection and structural health monitoring of aerospace materials Disposal recycling and materials selection are covered in the final two chapters With its comprehensive coverage of the main issues surrounding structural aerospace materials Introduction to aerospace materials is essential reading for undergraduate students studying aerospace and aeronautical engineering It will also be a valuable resource for postgraduate students and practising aerospace engineers Reviews the main structural and engine materials used in aircraft helicopters and space craft in terms of their properties performance and applications Introduces the reader to the range of aerospace materials focusing on recent developments and requirements and discusses the properties and production of metals for aerospace structures Chapters look in depth at individual metals including aluminium titanium magnesium steel and superalloys *Engineering Assets and Public Infrastructures in the Age of Digitalization* Jayantha P. Liyanage, Joe Amadi-Echendu, Joseph Mathew, 2020-08-17 This

proceedings of the 13th World Congress on Engineering Asset Management covers a range of topics that are timely relevant and practically important in the modern digital era towards safer cost effective efficient and secure engineered assets such as production and manufacturing plants process facilities civil structures equipment machinery and infrastructure It has compiled some pioneering work by domain experts of the global Engineering Asset Management community representing both public and private sectors The professional coverage of the book includes Asset management in Industry 4 0 Standards and models Sustainable assets and processes Life cycle perspectives Smart and safer assets Applied data science Workplace safety Asset health Advances in equipment condition monitoring Critical asset processes and Innovation strategy and entrepreneurship The breadth and depth of these state of the art comprehensive proceedings make them an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students

Advanced Topics Of Thin-walled Structures Haim Abramovich,2021-06-10 This unique compendium presents some new topics related to thin walled structures like beams plates and shells used in aerospace structures It highlights their dynamic behaviors and also the correlation between compressive loading and natural frequency to enable a correlation between the two yielding a valuable non destructive tool to predict buckling for thin walled structures This useful reference text combines valuable data on metal materials and composite materials together with new adaptive and smart materials like piezoelectricity shape memory alloys and optic fibers which form the present state of the art in thin walled structure domain

**Engineered Repairs of Composite Structures** Rikard Benton Heslehurst,2019-04-10 Engineered Repairs of Composite Structures provides a detailed discussion analysis and procedures for effective and efficient repair design of advanced composite structures It discusses the identification of damage types and the effect on structural integrity in composite structures leading to the design of a repair scheme that focusses on the restoration of the structural integrity and damage tolerance This book teaches the reader to better understand effective and efficient repair design allowing for more structurally effective repairs of damaged composite structures It also discusses the application of the repair and what is needed in the forming of the composite repair to meet the engineering design requirements Aimed at materials engineers mechanical engineers aerospace engineers and civil engineers this practical work is a must have for any industry professional working with composite structures

**Proceedings of Mechanical Engineering Research Day 2018** Mohd Fadzli Bin Abdollah,2018-05-16 This e book is a compilation of papers presented at the 5th Mechanical Engineering Research Day MERD 18 Kampus Teknologi UTem Melaka Malaysia on 03 May 2018

*Proceedings of the 6th China Aeronautical Science and Technology Conference* Chinese Soc. of Aeronautics&Astronautics,2023-12-20 This book contains the original peer reviewed research papers presented at the 6th China Aeronautical Science and Technology Conference held in Wuzhen Zhejiang Province China in September 2023 Topics covered include but are not limited to Navigation Guidance and Control Technology Aircraft Design and Overall Optimisation of Key Technologies Aviation Testing Technology Airborne Systems

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