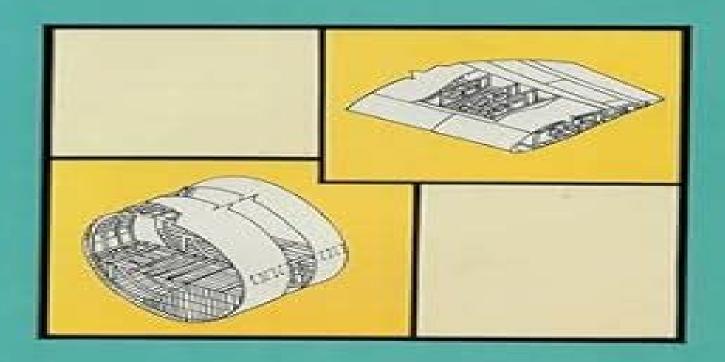
# AIRFRAME STRUCTURAL DESIGN

PRACTICAL DESIGN INFORMATION AND DATA ON AIRCRAFT STRUCTURES



MICHAEL C. Y. NIU

# <u>Airframe Structural Design Practical Design Information</u> And Data On Aircraft Structures

**Egbert Torenbeek** 

#### 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 Airframe Structural Design Chunyun Niu, Ch'un-yün Niu, 1988 Advanced Aircraft Design Egbert Niu,2006 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 guasi 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 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 Wing Engineering: Aerodynamics, Structures And Design Samuel Merryisha, Parvathy economic enhancement 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 **Topology Optimization in Engineering Structure Design** Jihong Zhu, Tong Gao, 2016-11-08 Topology concepts 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

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

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