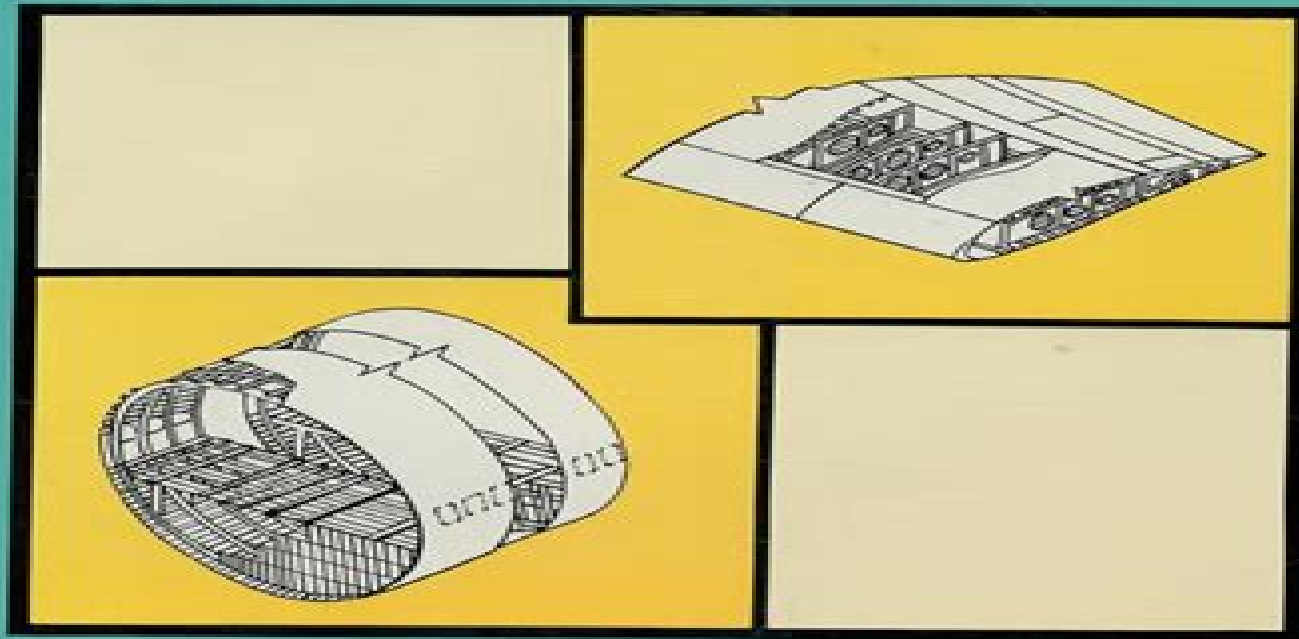


AIRFRAME STRUCTURAL DESIGN

PRACTICAL DESIGN INFORMATION
AND DATA ON
AIRCRAFT STRUCTURES



MICHAEL C. Y. NIU

Airframe Structural Design Practical Information And Data

Egbert Torenbeek



Airframe Structural Design Practical Information And Data:

Airframe Structural Design Chunyun Niu, Michael Chun-Yung Niu, 1988 *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

Information Sources in Engineering Roderick A. MacLeod, Jim Corlett, 2005 The aim of each volume of this series *Guides to Information Sources* is to reduce the time which needs to be spent on patient searching and to recommend the best starting point and sources most likely to yield the desired information The criteria for selection provide a way into a subject to those new to the field and assists in identifying major new or possibly unexplored sources to those who already have some acquaintance with it The series attempts to achieve evaluation through a careful selection of sources and through the comments provided on those sources *The Aeronautical Journal*, 1989 **Analytical Fuselage and Wing Weight**

Estimation of Transport Aircraft, 1996 **International Aerospace Abstracts**, 1999 **Aerospace**, 1989

Composite Airframe Structures Chunyun Niu, 2010 *Mechanical Engineers' Handbook, Volume 1* Myer Kutz, 2015-03-02 Full coverage of materials and mechanical design in engineering *Mechanical Engineers Handbook Fourth Edition* provides a quick guide to specialized areas you may encounter in your work giving you access to the basics of each

and pointing you toward trusted resources for further reading if needed The accessible information inside offers discussions examples and analyses of the topics covered This first volume covers materials and mechanical design giving you accessible and in depth access to the most common topics you ll encounter in the discipline carbon and alloy steels stainless steels aluminum alloys copper and copper alloys titanium alloys for design nickel and its alloys magnesium and its alloys superalloys for design composite materials smart materials electronic materials viscosity measurement and much more Presents comprehensive coverage of materials and mechanical design Offers the option of being purchased as a four book set or as single books depending on your needs Comes in a subscription format through the Wiley Online Library and in electronic and custom formats Engineers at all levels of industry government or private consulting practice will find Mechanical Engineers Handbook Volume 1 a great resource they ll turn to repeatedly as a reference on the basics of materials and mechanical design **High-Lift Systems on Commercial Subsonic Airliners** Peter K. C. Rudolph,1996

SSC. United States. Ship Structure Committee,1995 *Fatigue Crack Growth in Riveted Joints* Scott Anthony Fawaz,1997 1996 World Aviation Congress ,1996 Effects of Through-the-thickness Stitching on Impact and Interlaminar Fracture Properties of Textile Graphite/epoxy Laminates Suresh K. Sharma,1994 □□□□□□□□ ,1989

Plastics Engineered Product Design D.V. Rosato,2003-12-16 A comprehensive book which collates the experience of two well known US plastic engineers Enables engineers to make informed decisions Includes a unique chronology of the world of plastics The use of plastics is increasing year on year and new uses are being found for plastics in many industries Designers using plastics need to understand the nature and properties of the materials which they are using so that the products perform to set standards This book written by two very experienced plastics engineers provides copious information on the materials fabrication processes design considerations and plastics performance thus allowing informed decisions to be made by engineers It also includes a useful chronology of the world of plastics a resource not found elsewhere Aeronautical Engineering ,1991 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 **Journal of the Royal Aeronautical Society** ,2002 **NASA SP.** ,1991 *Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 261)* ,1991

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