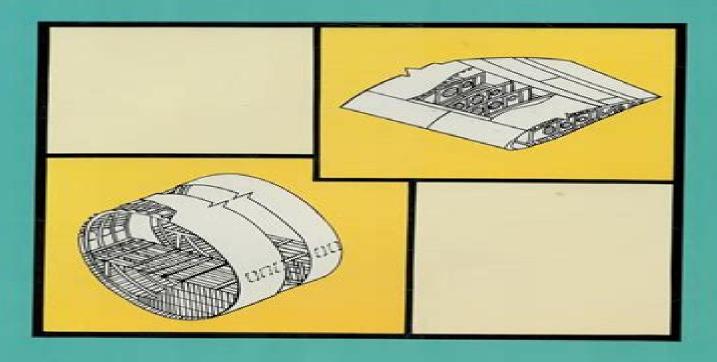
# AIRFRAME STRUCTURAL DESIGN

PRACTICAL DESIGN INFORMATION AND DATA ON AIRCRAFT STRUCTURES



MICHAEL C. Y. NIU

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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

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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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