

# Download Fundamentals Of Aircraft Structural Analysis

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Fundamentals of Aircraft Structural Analysis-Howard D. Curtis 1997 The author uses practical applications and real aerospace situations to illustrate concepts in the text covering modern topics including landing gear analysis, tapered beams, cutouts and composite materials. Chapters are included on statically determinate and statically indeterminate structures to serve as a review of material previously learned. Each chapter in the book contains methods and analysis, examples illustrating methods and homework problems for each topic.

Aircraft Structures for Engineering Students-Thomas Henry Gordon Megson 1977

Analysis of Aircraft Structures-Bruce K. Donaldson 2008-03-24 As with the first edition, this textbook provides a clear introduction to the fundamental theory of structural analysis as applied to vehicular structures such as aircraft, spacecraft, automobiles and ships. The emphasis is on the application of fundamental concepts of structural analysis that are employed in everyday engineering practice. All approximations are accompanied by a full explanation of their validity. In this new edition, more topics, figures, examples and exercises have been added. There is also a greater emphasis on the finite element method of analysis. Clarity remains the hallmark of this text and it employs three strategies to achieve clarity of presentation: essential introductory topics are covered, all approximations are fully explained and many important concepts are repeated.

Mechanics of Aircraft Structures-C. T. Sun 2006-04-28 Mechanics of Aircraft Structures, Second Edition is the revised update of the original bestselling textbook about aerospace engineering. This book covers the materials and analysis tools used for aircraft structural design and mechanics in the same easy to understand manner. The new edition focuses on three levels of coverage driven by recent advances in industry: the increase in the use of commercial finite element codes require an improved capability in students to formulate the problem and develop a judgement of the accuracy of the numerical results; the focus on fracture mechanics as a tool in studying damage tolerance and durability has made it necessary to introduce students at the undergraduate level to this subject; a new class of materials including advanced composites, are very different from the traditional metallic materials, requiring students and practitioners to understand the advantages the new materials make possible. This new edition will provide more homework problems for each chapter, more examples, and more details in some of the derivations.

Aircraft Structures-David J. Peery 2013-04-29 This legendary, still-relevant reference text on aircraft stress analysis discusses basic structural theory and the application of the elementary principles of mechanics to the analysis of aircraft structures. 1950 edition.

Structural Analysis-O. A. Bauchau 2009-08-03 The authors and their colleagues developed this text over many years, teaching undergraduate and graduate courses in structural analysis courses at the Daniel Guggenheim School of Aerospace Engineering of the Georgia Institute of Technology. The emphasis is on clarity and unity in the presentation of basic structural analysis concepts and methods. The equations of linear elasticity and basic constitutive behaviour of

isotropic and composite materials are reviewed. The text focuses on the analysis of practical structural components including bars, beams and plates. Particular attention is devoted to the analysis of thin-walled beams under bending shearing and torsion. Advanced topics such as warping, non-uniform torsion, shear deformations, thermal effect and plastic deformations are addressed. A unified treatment of work and energy principles is provided that naturally leads to an examination of approximate analysis methods including an introduction to matrix and finite element methods. This teaching tool based on practical situations and thorough methodology should prove valuable to both lecturers and students of structural analysis in engineering worldwide. This is a textbook for teaching structural analysis of aerospace structures. It can be used for 3rd and 4th year students in aerospace engineering, as well as for 1st and 2nd year graduate students in aerospace and mechanical engineering.

Fundamentals of aircraft structural analysis-Frederick Teichmann (K.) 1968

Introduction to Aerospace Structural Analysis-David H. Allen 1985-02-20 This text provides students who have had statics and introductory strength of materials with the necessary tools to perform stress analysis on aerospace structures such as wings, tails, fuselages, and space frames. It progresses from introductory continuum mechanics through strength of materials of thin-walled structures to energy methods, culminating in an introductory chapter on the powerful finite element method.

Aircraft Structures-G. Lakshmi Narasaiah 2011-07-12 Aircraft Structures concisely and comprehensively presents the basics of aircraft design and analysis and is intended for students in aerospace and mechanical engineering. In three sections and focusing particularly on the function of aircraft parts, this volume treats the fundamentals of aircraft design, excluding the engine and the avionics. The first part deals with the basics of structural analysis, including mechanics of rigid bodies, energy principles, analysis of trusses, and analysis of continuum structures. In the second part, basic aerodynamics, loads, beams, shafts, buckling of columns, bending and buckling of thin plates and shear flow, shear center and shear lag, aeroplane fuselage and wing and fatigue are explained. The third section covers additional topics, such as finite element analysis, aircraft construction materials and aeroelasticity. With an emphasis on lightweight design, this volume further presents some special topics, such as box beams in wings, ring frames in fuselage, and longitudinal stiffeners. With many examples and solved problems, this textbook on aircraft structures is an essential source of information for both students and engineering professionals who want to introduce themselves to the topic.

Fundamentals of Structural Engineering-Jerome J. Connor 2016-02-10 This updated textbook provides a balanced, seamless treatment of both classic, analytic methods and contemporary, computer-based techniques for conceptualizing and designing a structure. New to the second edition are treatments of geometrically nonlinear analysis and limit analysis based on nonlinear inelastic analysis. Illustrative examples of nonlinear behavior generated with advanced software are included. The book fosters an intuitive understanding of structural behavior based on problem solving experience for students of civil engineering and architecture who have been exposed to the basic concepts of engineering mechanics and mechanics of materials. Distinct from other undergraduate textbooks, the authors of Fundamentals of Structural Engineering, 2/e embrace the notion that engineers reason about behavior using simple models and intuition they acquire through problem solving. The perspective adopted in this text therefore develops this type of intuition by presenting extensive, realistic problems and case studies together with computer simulation, allowing for rapid exploration of how a structure responds to changes in geometry and physical parameters. The integrated approach employed in Fundamentals of Structural Engineering, 2/e make it an ideal instructional resource for students and a comprehensive, authoritative reference for practitioners of civil and structural engineering.

The Fundamentals of Aircraft Combat Survivability Analysis and Design-Robert E. Ball 2003 From infant car seats to the design of aircraft cargo bay structures that can withstand bomb blasts, the government is taking the lead in survivability standards. The extensively illustrated new edition of this book presents the fundamentals of the aircraft combat survivability design discipline as defined by the DoD military standards and acquisition processes.

Fundamentals of Aircraft and Airship Design-Leland Malcolm Nicolai 2010 The aircraft is only a transport mechanism for the payload, and all design decisions must consider payload first. Simply stated, the aircraft is a dust cover. "Fundamentals of Aircraft and Airship Design, Volume 1: Aircraft Design" emphasizes that the science and art of the aircraft design process is a compromise and that there is no right answer; however, there is always a best answer based on existing requirements and available technologies.

Aircraft Performance and Sizing, Volume I-Timothy Takahashi 2017-12-15 This book is a concise practical treatise for the student or experienced professional aircraft designer. This volume comprises key fundamental subjects for aerodynamic performance analysis: the basics of flight mechanics bridging both engineering and piloting perspectives, propulsion system performance attributes, practical drag prediction methods, aircraft “up and away” flight performance and aircraft mission performance. This book may serve as a textbook for an undergraduate aircraft performance course or as a reference for the classically trained practicing engineer.

Aircraft Design-Mohammad H. Sadraey 2012-11-20 A comprehensive approach to the air vehicle design process using the principles of systems engineering. Due to the high cost and the risks associated with development, complex aircraft systems have become a prime candidate for the adoption of systems engineering methodologies. This book presents the entire process of aircraft design based on a systems engineering approach from conceptual design phase, through top preliminary design phase and to detail design phase. Presenting in one volume the methodologies behind aircraft design, this book covers the components and the issues affected by design procedures. The basic topics that are essential to the process, such as aerodynamics, flight stability and control, aero-structure, and aircraft performance are reviewed in various chapters where required. Based on these fundamentals and design requirements, the author explains the design process in a holistic manner to emphasize the integration of the individual components into the overall design. Throughout the book the various design options are considered and weighed against each other, to give readers a practical understanding of the process overall. Readers with knowledge of the fundamental concepts of aerodynamics, propulsion, aero-structure, and flight dynamics will find this book ideal to progress towards the next stage in their understanding of the topic. Furthermore, the broad variety of design techniques covered ensures that readers have the freedom and flexibility to satisfy the design requirements when approaching real-world projects. Key features:

- Provides full coverage of the design aspects of an air vehicle including: aeronautical concepts, design techniques and design flowcharts
- Features end of chapter problems to reinforce the learning process as well as fully solved design examples at component level
- Includes fundamental explanations for aeronautical engineering students and practicing engineers
- Features a solutions manual to sample questions on the book's companion website

Companion website - <http://www.wiley.com/go/sadraey>

Structural Health Monitoring of Aerospace Composites-Victor Giurgiutiu 2015-09-08 Structural Health Monitoring of Aerospace Composite Structures offers a comprehensive review of established and promising technologies under development in the emerging area of structural health monitoring (SHM) of aerospace composite structures. Beginning with a description of the different types of composite damage, which differ fundamentally from the damage states encountered in metallic airframes, the book moves on to describe the SHM methods and sensors currently under consideration before considering application examples related to specific composites, SHM sensors, and detection methods. Expert author Victor Giurgiutiu closes with a valuable discussion of the advantages and limitations of various sensors and methods, helping you to make informed choices in your structure research and development. The first comprehensive review of one of the most ardent research areas in aerospace structures, providing breadth and detail to bring engineers and researchers up to speed on this rapidly developing field. Covers the main classes of SHM sensors, including fiber optic sensors, piezoelectric wafer active sensors, electrical properties sensors and conventional resistance strain gauges, and considers their applications and limitations. Includes details of active approaches, including acousto-ultrasonics, vibration, frequency transfer function, guided-wave tomography, phased arrays, and electrochemical impedance spectroscopy (ECIS), among other emerging methods.

Fundamentals of Structural Analysis-

Composite Materials for Aircraft Structures-Alan A. Baker 2004

Structural Loads Analysis-Ted L. Lomax 1996

Principles of Aeroelasticity-Rama B. Bhat 2018-09-03 Introductory Guide on the Design of Aerospace Structures Developed from a course taught at Concordia University for more than 20 years, Principles of Aeroelasticity utilizes the author's extensive teaching experience to immerse undergraduate and first-year graduate students into this very specialized subject. Ideal for coursework or self-study, this detailed examination introduces the concepts of aeroelasticity, describes how aircraft lift structures behave when subjected to aerodynamic loads, and finds its application in aerospace, civil, and mechanical engineering. The book begins with a discussion on static behavior, and moves on to static instability and divergence, dynamic behavior leading up to flutter, and fluid

structure interaction problems. It covers classical approaches based on low-order aerodynamic models and provides a rationale for adopting certain aeroelastic models. The author describes the formulation of discrete models as well as continuous structural models. He also provides approximate methods for solving divergence, flutter, response and stability of structures, and addresses non-aeroelastic problems in other areas that are similar to aeroelastic problems. Topics covered include: The fundamentals of vibration theory Vibration of single degree of freedom and two degrees of freedom systems Elasticity in the form of an idealized spring element Repetitive motion Flutter phenomenon Classical methods, Rayleigh-Ritz techniques, Galerkin's technique, influential coefficient methods, and finite element methods Unsteady aerodynamics, and more

Structural Dynamics in Aeronautical Engineering-Maher N. Bismarck-Nasr 1999 Annotation "Structural Dynamics in Aeronautical Engineering is a comprehensive introduction to the modern methods of dynamic analysis of aeronautical structures. The text represents carefully developed course materials, beginning with an introductory chapter on matrix algebra and methods for numerical computations, followed by a series of chapters discussing specific aeronautical applications. In this way, the student can be guided from the simple concept of a single-degree-of-freedom structural system to the more complex multidegree-of-freedom and continuous systems, including random vibrations, nonlinear systems, and aeroelastic phenomena. Among the various examples used in the text, the chapter on aeroelasticity of flight vehicles is particularly noteworthy with its clear presentation of the phenomena and its mathematical formulation for structural and aerodynamic loads.

Practical Analysis of Aircraft Composites-Brian Esp 2017-10-28

Structural Loads Analysis for Commercial Transport Aircraft-Ted L. Lomax 1996 This important text covers all aspects of structural loads analysis and provides some continuity between what was done on earlier airplane designs and what the current applications of the present regulations require.

Essentials of Mechanical Stress Analysis-Amir Javidinejad 2014-11-07 Developed with stress analysts handling multidisciplinary subjects in mind, and written to provide the theories needed for problem solving and stress analysis on structural systems, Essentials of Mechanical Stress Analysis presents a variety of relevant topics—normally offered as individual course topics—that are crucial for carrying out the analysis of structures. This work explores concepts through both theory and numerical examples, and covers the analytical and numerical approaches to stress analysis, as well as isotropic, metallic, and orthotropic composite material analyses. Comprised of 13 chapters, this must-have resource: Establishes the fundamentals of material behavior required for understanding the concepts of stress analysis Defines stress and strain, and elaborates on the basic concepts exposing the relationship between the two Discusses topics related to contact stresses and pressure vessels Introduces the different failure criteria and margins of safety calculations for ductile and brittle materials Illustrates beam analysis theory under various types of loading Introduces plate analysis theory Addresses elastic instability and the buckling of columns and plates Demonstrates the concept of fatigue and stress to life-cycle calculations Explores the application of energy methods for determining deflection and stresses of structural systems Highlights the numerical methods and finite element techniques most commonly used for the calculation of stress Presents stress analysis methods for composite laminates Explains fastener and joint connection analysis theory Provides MathCAD® sample simulation codes that can be used for fast and reliable stress analysis Essentials of Mechanical Stress Analysis is a quintessential guide detailing topics related to stress and structural analysis for practicing stress analysts in mechanical, aerospace, civil, and materials engineering fields and serves as a reference for higher-level undergraduates and graduate students.

Airframe Structural Design-Chunyun Niu 1999

Fundamentals of Aerospace Engineering-Manuel Soler 2014-01-01 The book is divided into three parts, namely: Introduction, The Aircraft, and Air Transportation, Airports, and Air Navigation. The first part is divided in two chapters in which the student must achieve to understand the basic elements of atmospheric flight (ISA and planetary references) and the technology that apply to the aerospace sector, in particular with a specific comprehension of the elements of an aircraft. The second part focuses on the aircraft and it is divided in five chapters that introduce the student to aircraft aerodynamics (fluid mechanics, airfoils, wings, high-lift devices), aircraft materials and structures, aircraft propulsion, aircraft instruments and systems, and atmospheric flight mechanics (performances and stability and control). The third part is devoted to understand the global air transport system (covering both regulatory and economical frameworks), the airports, and the global air navigation system (its history, current status, and future development). The theoretical contents are

illustrated with figures and complemented with some problems/exercises. The problems deal, fundamentally, with aerodynamics and flight mechanics, and were proposed in different exams. The course is complemented by a practical approach. Students should be able to apply theoretical knowledge to solve practical cases using academic (but also industrial) software, such as MATLAB (now we are moving towards open source software such as SciLab). The course also includes a series of assignments to be completed individually or in groups. These tasks comprise an oral presentation, technical reports, scientific papers, problems, etc. The course is supplemented by scientific and industrial seminars, recommended readings, and a visit to an institution or industry related to the study and of interest to the students. All this documentation is not explicitly in the book but can be accessed online at the book's website [www.aerospaceengineering.es](http://www.aerospaceengineering.es). The slides of the course are also available at the book's website: <http://www.aerospaceengineering.es> Fundamentals of Aerospace Engineering is licensed under a Creative Commons Attribution-Non Commercial-Share Alike (CC BY-NC-SA) 3.0 License, and it is offered in open access both in "pdf" and "epub" formats. The document can be accessed and downloaded at the book's website. This licensing is aligned with a philosophy of sharing and spreading knowledge. Writing and revising over and over this book has been an exhausting, very time consuming activity. To acknowledge author's effort, a donation platform has been activated at the book's website.

General Aviation Aircraft Design-Snorri Gudmundsson 2013-09-03 Find the right answer the first time with this useful handbook of preliminary aircraft design. Written by an engineer with close to 20 years of design experience, General Aviation Aircraft Design: Applied Methods and Procedures provides the practicing engineer with a versatile handbook that serves as the first source for finding answers to realistic aircraft design questions. The book is structured in an "equation/derivation/solved example" format for easy access to content. Readers will find it a valuable guide to topics such as sizing of horizontal and vertical tails to minimize drag, sizing of lifting surfaces to ensure proper dynamic stability, numerical performance methods, and common faults and fixes in aircraft design. In most cases, numerical examples involve actual aircraft specs. Concepts are visually depicted by a number of useful black-and-white figures, photos, and graphs (with full-color images included in the eBook only). Broad and deep in coverage, it is intended for practicing engineers, aerospace engineering students, mathematically astute amateur aircraft designers, and anyone interested in aircraft design. Organized by articles and structured in an "equation/derivation/solved example" format for easy access to the content you need Numerical examples involve actual aircraft specs Contains high-interest topics not found in other texts, including sizing of horizontal and vertical tails to minimize drag, sizing of lifting surfaces to ensure proper dynamic stability, numerical performance methods, and common faults and fixes in aircraft design Provides a unique safety-oriented design checklist based on industry experience Discusses advantages and disadvantages of using computational tools during the design process Features detailed summaries of design options detailing the pros and cons of each aerodynamic solution Includes three case studies showing applications to business jets, general aviation aircraft, and UAVs Numerous high-quality graphics clearly illustrate the book's concepts (note: images are full-color in eBook only)

Recent Advances in Structural Integrity Analysis - Proceedings of the International Congress (APCF/SIF-2014)-Lin Ye 2015-02-10 The proceedings of the International Congress (c) include about 120 papers selected out of 160 papers submitted for presentations at APCF/SIF-2014, to be held in Sydney, Australia, December 9-12, 2014, and uniting the Asian-Pacific Conference on Fracture and Strength 2014 (APCFS-2014) with the International Conference on Structural Integrity and Failure (SIF-2014). The congress will be hosted by The University of Sydney and co-organized by Australia Fracture Group (AFG), the Chinese Mechanical Engineering Society, Materials Institution (CMES-MI), the Korean Society of Mechanical Engineers, Materials and Fracture Division (KSME-MFD) and The Japanese Society of Mechanical Engineers, Materials and Mechanics Division (JSME-MMD). The congress follows the series of the previous very successful APCF and SIF international forums, in particular, APCFS 2012, Busan and the 8th SIF, Melbourne, 2013. Characterisations of complex mechanisms of damage accumulation and failure Application of new multi-scale modelling approaches in problems associated with structural integrity Development of more accurate technologies for structural damage assessment

Fatigue of Aircraft Structures-Horace John Grover 1967

Structural Acoustics-Joshua E. Greenspon 2016-04-19 From jet engine noise that generates vibrations in the structure of an aircraft, to the sound radiation from the hull of a ship or submarine that makes it identifiable, an understanding of structural acoustics is key in the design process in maritime, automotive, aerospace, and architectural engineering. Building on classic works in the field, Structural Acoustics: Deterministic and Random Phenomena presents

fundamental concepts, relations, and simplified methods for calculating complex problems associated with vibrations and noise issues of automobiles, ships, submarines, and aircraft. This practical reference studies the response of structures and media that are coupled with a fluid and are under static, dynamic, and random loading. Simplified solutions to complicated problems Starting with a review of the fundamentals of acoustics and structural acoustics, the book discusses the response of the beams, plates, and shells that compose most built-up structures before providing methods for solving problems of built-up systems, including a procedure for computing the response of an elastic or viscoelastic media without resorting to a large computer program. Building on this analysis, the second section develops the analysis for random loading, which can also be applied to geophysical phenomena and viscoelastic media. Proceeding from the fundamental aspects of simple structures to more complicated cases with more involved loading, the book presents formulas and applications for random loading. By providing a fundamental understanding of sound radiation in air and water, this book shows readers how to solve structural and acoustical problems. An important reference for those working in the area of acoustics and vibration analysis, it also includes computer programs for acoustical analysis available at [www.crcpress.com](http://www.crcpress.com).

Aircraft Structures for Engineering Students-Thomas Henry Gordon Megson 2013 Aircraft Structures for Engineering Students, Fifth Edition, is the leading self-contained aircraft structures course text. It covers all fundamental subjects, including elasticity, structural analysis, airworthiness, and aeroelasticity. The author has revised and updated the text throughout and added new examples and exercises using Matlab. Additional worked examples make the text even more accessible by showing the application of concepts to airframe structures. The text is designed for undergraduate and postgraduate students of aerospace and aeronautical engineering. It is also suitable for professional development and training courses. New worked examples throughout the text aid understanding and relate concepts to real world applications Matlab examples and exercises added throughout to support use of computational tools in analysis and design An extensive aircraft design project case study shows the application of the major techniques in the book

Bonded Repair of Aircraft Structures-A. Baker 1988-05-31 The conventional approach to through-life-support for aircraft structures can be divided into the following phases: (i) detection of defects, (ii) diagnosis of their nature and significance, (iii) forecasting future behaviour-prognosis, and (iv) pre scription and implementation of remedial measures including repairs. Considerable scientific effort has been devoted to developing the science and technology base for the first three phases. Of particular note is the development of fracture mechanics as a major analytical tool for metals, for predicting residual strength in the presence of cracks ( damage tolerance) and rate of crack propagation under service loading. Intensive effort is currently being devoted to developing similar approaches for fibre composite structures, particularly to assess damage tolerance and durability in the presence of delamination damage. Until recently there has been no major attempt to develop a science and tech nology base for the last phase, particularly with respect to the development of repairs. Approaches are required which will allow assessment of the type and magnitude of defects amenable to repair and the influence of the repair on the stress intensity factor (or some related parameter). Approaches are also required for the development and design of optimum repairs and for assessment of their durability.

Practical Stress Analysis for Design Engineers-Jean-Claude Flabel 1997-01-01

Fundamentals of Aircraft Structures-Millard Vernon Barton 1948

Advanced Methods of Structural Analysis-Igor A. Karnovsky 2010-03-14 Advanced Methods of Structural Analysis aims to help its readers navigate through the vast field of structural analysis. The book aims to help its readers master the numerous methods used in structural analysis by focusing on the principal concepts, as well as the advantages and disadvantages of each method. The end result is a guide to mastering the many intricacies of the plethora of methods of structural analysis. The book differentiates itself from other volumes in the field by focusing on the following: • Extended analysis of beams, trusses, frames, arches and cables • Extensive application of influence lines for analysis of structures • Simple and effective procedures for computation of deflections • Introduction to plastic analysis, stability, and free vibration analysis Authors Igor A. Karnovsky and Olga Lebed have crafted a must-read book for civil and structural engineers, as well as researches and students with an interest in perfecting structural analysis. Advanced Methods of Structural Analysis also offers numerous example problems, accompanied by detailed solutions and discussion of the results.

Analysis and Design of Flight Vehicle Structures-Elmer Franklin Bruhn 1973

Fundamentals of Structural Mechanics and Analysis- 2011 This book is a comprehensive presentation of the fundamental aspects of structural mechanics and

analysis. It aims to help develop in the students the ability to analyze structures in a simple and logical manner. The major thrust in this book is on energy principles. The text, organized into sixteen chapters, covers the entire syllabus of structural analysis usually prescribed in the undergraduate level civil engineering programme and covered in two courses. The first eight chapters deal with the basic techniques for analysis, based on classical methods, of common determinate structural elements and simple structures. The following eight chapters cover the procedures for analysis of indeterminate structures, with emphasis on the use of modern matrix methods such as flexibility and stiffness methods, including the finite element techniques. Primarily designed as a textbook for undergraduate students of civil engineering, the book will also prove immensely useful for professionals engaged in structural design and engineering.

Aircraft Structures for Engineering Students-Thomas Henry Gordon Megson 1999 This completely self contained course in aircraft structures contains not only the fundamentals of elasticity and aircraft structural analysis but also the associated topics of airworthiness and aeroelasticity.

Polymer Composites in the Aerospace Industry-Phil E 2014-09-17 Polymer composites are increasingly used in aerospace applications due to properties such as strength and durability compared to weight. Edited by two leading authorities in the field, this book summarises key recent research on design, manufacture and performance of composite components for aerospace structures. Part one reviews the design and manufacture of different types of composite component. Part two discusses aspects of performance such as stiffness, strength, fatigue, impact and blast behaviour, response to temperature and humidity as well as non-destructive testing and monitoring techniques.

Aircraft Performance & Design-John David Anderson 1999 Written by one of the most successful aerospace authors, this new book develops aircraft performance techniques from first principles and applies them to real airplanes. It also addresses a philosophy of, and techniques for aircraft design. By developing and discussing these two subjects in a single text, the author captures a degree of synergism not found in other texts. The book is written in a conversational style, a trademark of all of John Anderson's texts, to enhance the readers' understanding.

Fundamentals for the Analysis and Design of Aircraft Structures-Jean-Marie Fehrenbach 2003

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