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T.H.G. Megson is a professor emeritus with the Department of Civil Engineering at Leeds University (UK). For Elsevier he has written the market leading Butterworth Heinemann textbooks Aircraft Structures for Engineering Students and Introduction to Aircraft Structural Analysis (a briefer derivative of the aircraft structures book), as well as ...

Introduction to Aircraft Structural Analysis is an essential resource for learning aircraft structural analysis. Based on the author's best-selling book Aircraft Structures for Engineering Students, this brief text introduces the reader to the basics of structural analysis as applied to aircraft structures. Coverage of elasticity, energy methods and virtual work sets the stage for discussions of airworthiness/airframe loads and stress analysis of aircraft components. Numerous worked examples, illustrations, and sample problems show how to apply the concepts to realistic situations. The book covers the core concepts in about 200 fewer pages by removing some optional topics like structural vibrations and aero elasticity. It consists of 23 chapters covering a variety of topics from basic elasticity to torsion of solid sections; energy methods; matrix methods; bending of thin plates; structural components of aircraft; airworthiness; airframe loads; bending of open, closed, and thin walled beams; combined open and closed section beams; wing spars and box beams; and fuselage frames and wing ribs. This book will appeal to undergraduate and postgraduate students of aerospace and aeronautical engineering, as well as professional development and training courses. Based on the author's best-selling text Aircraft Structures for Engineering Students, this Intro version covers the core concepts in about 200 fewer pages by removing some optional topics like structural vibrations and aeroelasticity Systematic step by step procedures in the worked examples Self-contained, with complete derivations for key equations

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.

A one-stop Desk Reference, for engineers involved in all aspects of aerospace; this is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material covers a broad topic range from Structural Components of Aircraft, Design and Airworthiness to Aerodynamics and Modelling * A fully searchable Mega Reference Ebook, providing all the essential material needed by Aerospace Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

Structural analysis is the corner stone of civil engineering and all students must obtain a thorough understanding of the techniques available to analyse and predict stress in any structure. The new edition of this popular textbook provides the student with a comprehensive introduction to all types of structural and stress analysis, starting from an explanation of the basic principles of statics, normal and shear force and bending moments and torsion. Building on the success of the first edition, new material on structural dynamics and finite element method has been included. Virtually no prior knowledge of structures is assumed and students requiring an accessible and comprehensive insight into stress analysis will find no better book available. Provides a comprehensive overview of the subject providing an invaluable resource to undergraduate civil engineers and others new to the subject Includes numerous worked examples and problems to aide in the learning process and develop knowledge and skills Ideal for classroom and training course usage providing relevant pedagogy

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.

Structural analysis is the corner stone of civil engineering and all students must obtain a thorough understanding of the techniques available to analyse and predict stress in any structure. This text provides the student with a comprehensive introduction to all types of structural and stress analysis. Starting from an explanation of the basic principles of statics, normal and shear force and bending moments and torsion. It goes on to examine the different structures in which consideration of these is paramount, from simple pin joints to suspension cables. The properties of materials are outlined and all aspects of beam theory are examined in full. Finally the author discusses the key area of instability in structures. Virtually no prior knowledge of structures is assumed and students requiring an accessible and comprehensive insight into stress analysis will find no better book available.

Based on a 15-year successful approach to teaching aircraft flight mechanics at the US Air Force Academy, this text explains the concepts and derivations of equations for aircraft flight mechanics. It covers aircraft performance, static stability, aircraft dynamics stability and feedback control.

Flight Vehicle Dynamics and Control Rama K. Yedavalli, The Ohio State University, USA A comprehensive textbook which presents flight vehicle dynamics and control in a unified framework Flight Vehicle Dynamics and Control presents the dynamics and control of various flight vehicles, including aircraft, spacecraft, helicopter, missiles, etc, in a unified framework. It covers the fundamental topics in the dynamics and control of these flight vehicles, highlighting shared points as well as differences in dynamics and control issues, making use of the "systems level" viewpoint. The book begins with the derivation of the equations of motion for a general rigid body and then delineates the differences between the dynamics of various flight vehicles in a fundamental way. It then focuses on the dynamic equations with application to these various flight vehicles, concentrating more on aircraft and spacecraft cases. Then the control systems analysis and design is carried out both from transfer function, classical control, as well as modern, state space control points of view. Illustrative examples of application to atmospheric and space vehicles are presented, emphasizing the "systems level" viewpoint of control design. Key features: Provides a comprehensive treatment of dynamics and control of various flight vehicles in a single volume. Contains worked out examples (including MATLAB examples) and end of chapter homework problems. Suitable as a single textbook for a sequence of undergraduate courses on flight vehicle dynamics and control. Accompanied by a website that includes additional problems and a solutions manual. The book is essential reading for undergraduate students in mechanical and aerospace engineering, engineers working on flight vehicle control, and researchers from other engineering backgrounds working on related topics.

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key

concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

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