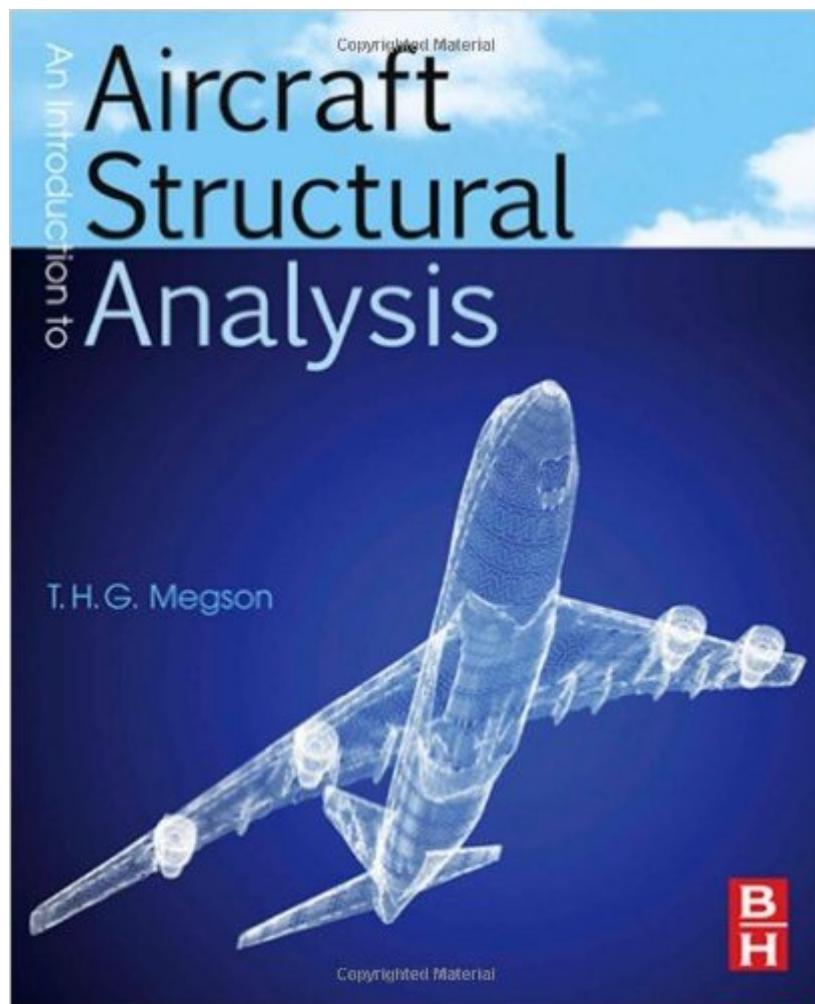


The book was found

Introduction To Aircraft Structural Analysis (Elsevier Aerospace Engineering)



Synopsis

Based on the author's best-selling text Aircraft Structures for Engineering Students, this brief book covers the basics of structural analysis as applied to aircraft structures. Coverage of elasticity, energy methods and virtual work set 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. Self-contained, this value-priced book is an excellent resource for anyone learning the subject. Covers the core concepts in about 200 fewer pages by removing some optional topics like structural vibrations and aero elasticity. Systematic step by step procedures in the worked examples. Self-contained, with complete derivations for key equations. 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.

Book Information

Series: Elsevier Aerospace Engineering

Paperback: 648 pages

Publisher: Butterworth-Heinemann; 1 edition (February 16, 2010)

Language: English

ISBN-10: 185617932X

ISBN-13: 978-1856179324

Product Dimensions: 7.5 x 1.3 x 9.2 inches

Shipping Weight: 2.2 pounds

Average Customer Review: 3.7 out of 5 stars. See all reviews. (3 customer reviews)

Best Sellers Rank: #1,472,588 in Books (See Top 100 in Books) #67 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #724 in Books > Textbooks > Engineering > Aeronautical Engineering #729 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural

Customer Reviews

My course in aircraft structures uses this as its text, and honestly I spend more time using other books in the library than this one. It covers all the appropriate subjects and the methods are correct, but the descriptions are not detailed enough to fully understand the process from the text alone.

Also, several of the examples contain errors; this really makes life difficult for the student! I don't know if the full version (this is "excerpted" from another of Megson's books) has been corrected in later editions.

I am currently taking an aircraft structural analysis course with this as a required text. At about halfway through the semester, I can say I've found more use of my mechanics of materials text than this book. It is very heavy with theory, and sometimes the theory is presented as a concept without any mathematical clarification. Our instructor has just gotten to the unit load and the flexibility method of analysis, and I have almost completely given up on understanding any of this from Megson's book. In all fairness, this book is full of different analysis methods, and I think the sparseness of information in some of these methods reflects the likelihood of actually using those methods in practice. Lots of problems worked out.(with tons of skipped steps!) Ultimately be prepared to read the text, look at the example problems that follow, and ask "why?,why? why?".

Provides a high quality teaching on aircraft structural analysis theory.

[Download to continue reading...](#)

Introduction to Aircraft Structural Analysis (Elsevier Aerospace Engineering) Aircraft Structures for Engineering Students, Fifth Edition (Elsevier Aerospace Engineering) Aircraft Structures for Engineering Students, Fourth Edition (Elsevier Aerospace Engineering) Aircraft Structures for Engineering Students (Elsevier Aerospace Engineering) Analysis of Aircraft Structures: An Introduction (Cambridge Aerospace Series) Introduction to Aerospace Structural Analysis Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Introduction to Aircraft Structural Analysis, Second Edition Introduction to Aircraft Structural Analysis Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series, Vol. 15) Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series) Aircraft Aerodynamic Design: Geometry and Optimization (Aerospace Series) CRC Handbook of Thermal Engineering (Mechanical and Aerospace Engineering Series) Fundamentals of Aircraft Structural Analysis Structural Loads Analysis for Commercial Aircraft: Theory and Practice (American History Through Literature) Matrix Analysis of Structural Dynamics: Applications and Earthquake Engineering (Civil and Environmental Engineering) Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound] Aircraft Dispatcher Oral Exam Guide: Prepare

for the FAA Oral and Practical Exam to Earn Your Aircraft Dispatcher Certificate (Oral Exam Guide series) Jane's All the World's Aircraft (IHS Jane's All the World's Aircraft)

[Dmca](#)