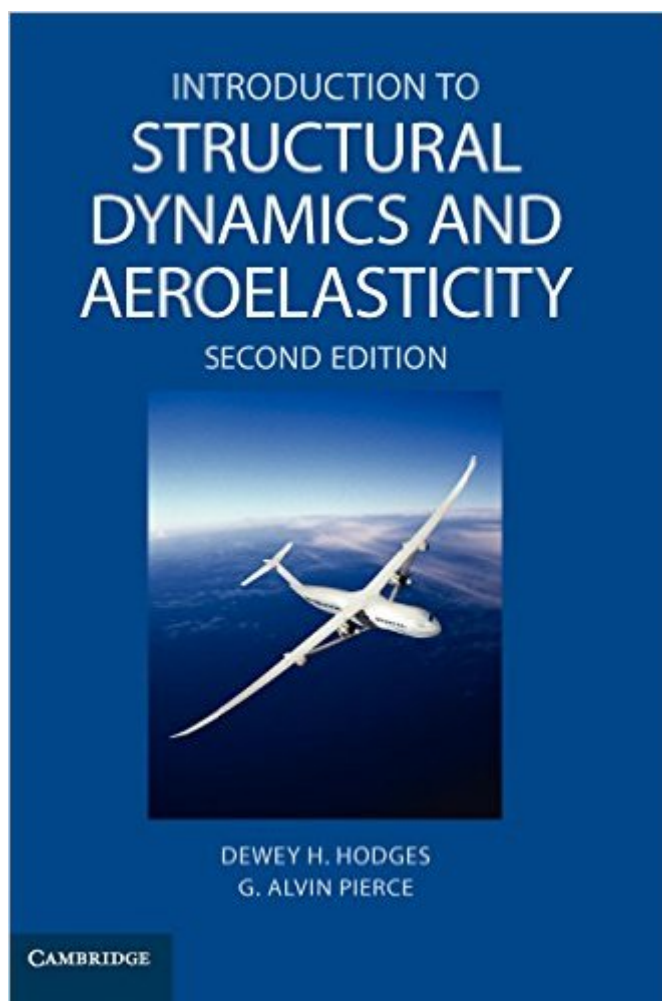


The book was found

# Introduction To Structural Dynamics And Aeroelasticity (Cambridge Aerospace Series, Vol. 15)



## Synopsis

This text provides an introduction to structural dynamics and aeroelasticity, with an emphasis on conventional aircraft. The primary areas considered are structural dynamics, static aeroelasticity, and dynamic aeroelasticity. The structural dynamics material emphasizes vibration, the modal representation, and dynamic response. Aeroelastic phenomena discussed include divergence, aileron reversal, airload redistribution, unsteady aerodynamics, flutter, and elastic tailoring. More than one hundred illustrations and tables help clarify the text, and more than fifty problems enhance student learning. This text meets the need for an up-to-date treatment of structural dynamics and aeroelasticity for advanced undergraduate or beginning graduate aerospace engineering students. Praise from the First Edition "Wonderfully written and full of vital information by two unequalled experts on the subject, this text meets the need for an up-to-date treatment of structural dynamics and aeroelasticity for advanced undergraduate or beginning graduate aerospace engineering students." - Current Engineering Practice "Hodges and Pierce have written this significant publication to fill an important gap in aeronautical engineering education. Highly recommended." - Choice ". . . a welcome addition to the textbooks available to those with interest in aeroelasticity. . . . As a textbook, it serves as an excellent resource for advanced undergraduate and entry-level graduate courses in aeroelasticity. . . . Furthermore, practicing engineers interested in a background in aeroelasticity will find the text to be a friendly primer." - AIAA Bulletin

## Book Information

Series: Cambridge Aerospace Series (Book 15)

Hardcover: 272 pages

Publisher: Cambridge University Press; 2 edition (August 22, 2011)

Language: English

ISBN-10: 052119590X

ISBN-13: 978-0521195904

Product Dimensions: 8.5 x 0.6 x 10 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars [See all reviews](#) (4 customer reviews)

Best Sellers Rank: #1,047,008 in Books (See Top 100 in Books) #49 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics](#) #528 in [Books > Textbooks > Engineering > Aeronautical Engineering](#) #539 in [Books > Engineering & Transportation > Engineering > Aerospace > Astronautics & Space Flight](#)

## Customer Reviews

I got some of my queries answered using this book which I could not do so with 2-3 previous books. So I feel it is a value for money book and worth reading

One of the best textbooks I've had in AE. Probably the easiest/least frustrating to read. Also, it doesn't go off on tangents you don't care about.

It was a good buy. The book arrived on time and in good shape as well. Book used for school class.

great seller. AAAA+++

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

Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series, Vol. 15)  
Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series) Introduction to Aerospace Structural Analysis Introduction to Aircraft Structural Analysis (Elsevier Aerospace Engineering) Analysis of Aircraft Structures: An Introduction (Cambridge Aerospace Series) Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Structural Dynamics: An Introduction to Computer Methods Introduction to Structural Dynamics MASON JAR RECIPES BOOK SET 5 book in 1: Meals in Jars (vol.1); Salads in Jars (Vol. 2); Desserts in Jars (Vol. 3); Breakfasts in Jars (Vol. 4); Gifts in Jars (Vol. 5): Easy Mason Jar Recipe Cookbooks Structural Dynamics by Finite Elements (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Structural Geology: An Introduction to Geometrical Techniques 4th (fourth) Edition by Ragan, Donal M. published by Cambridge University Press (2009) Matrix Analysis of Structural Dynamics: Applications and Earthquake Engineering (Civil and Environmental Engineering) Stress, Strain, and Structural Dynamics: An Interactive Handbook of Formulas, Solutions, and MATLAB Toolboxes Structural Dynamics: Theory and Applications Structural Dynamics: Theory and Computation Structural Dynamics and Vibration in Practice: An Engineering Handbook Mechanical Vibrations: Theory and Application to Structural Dynamics Structural Stability of Steel: Concepts and Applications for Structural Engineers 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]

[Dmca](#)