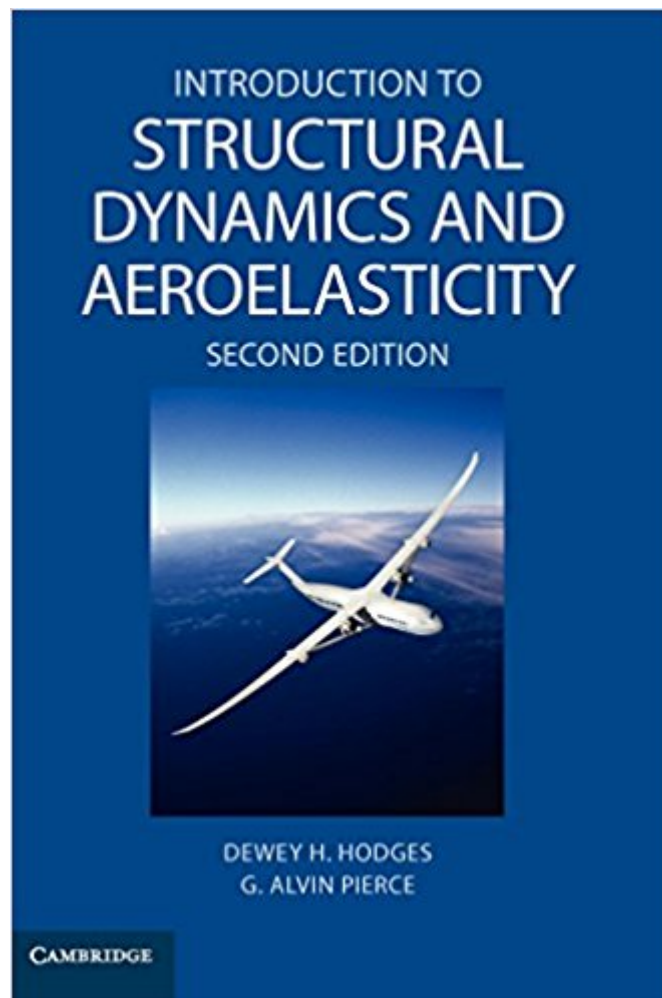




**Ebook Directory**  
the best source of ebook

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 4 customer reviews

Best Sellers Rank: #255,211 in Books (See Top 100 in Books) #9 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #138 in Books > Textbooks > Engineering > Aeronautical Engineering #147 in Books > Engineering & Transportation > Engineering > Aerospace > Astronautics & Space Flight

## Customer Reviews

"... aimed at final year undergraduates and postgraduates ... This book will certainly appeal to mathematically inclined students." The Aeronautical Journal

This text introduces structural dynamics and aeroelasticity, emphasizing conventional aircraft. It considers 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 fifty problems enhance student learning.

great seller. AAAA+++

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.

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

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

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

Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series, Vol. 15)  
Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series) Spacecraft  
Dynamics and Control: A Practical Engineering Approach (Cambridge Aerospace Series)  
Nonequilibrium Gas Dynamics and Molecular Simulation (Cambridge Aerospace Series) Structural  
Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab  
(Woodhead Publishing Series in Civil and Structural Engineering) Introduction to Aerospace  
Structural Analysis Theory of Aerospace Propulsion, Second Edition (Aerospace Engineering)  
Theory of Aerospace Propulsion (Aerospace Engineering) An Introduction to Flapping Wing  
Aerodynamics (Cambridge Aerospace Series) Analysis of Aircraft Structures: An Introduction  
(Cambridge Aerospace Series) Spaceflight Dynamics (McGraw-Hill Series in Aeronautical and  
Aerospace Engineering) Structural Analysis: With Applications to Aerospace Structures (Solid

Mechanics and Its Applications) A History of Aerodynamics: And Its Impact on Flying Machines  
(Cambridge Aerospace Series) Structural Dynamics: An Introduction to Computer Methods  
Introduction to Structural Dynamics Experimental Structural Dynamics: An Introduction to  
Experimental Methods of Characterizing Vibrating Structures Applied Computational Aerodynamics:  
A Modern Engineering Approach (Cambridge Aerospace Series) Principles of Turbomachinery in  
Air-Breathing Engines (Cambridge Aerospace Series) Fundamentals of Jet Propulsion with  
Applications (Cambridge Aerospace Series) Strengthening of Reinforced Concrete Structures:  
Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing  
Series in Civil and Structural Engineering)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)