

Introduction to Structural Dynamics and Aeroelasticity, 2002, Dewey H. Hodges, G. Alvin Pierce, 1139433911, 9781139433914, Cambridge University Press, 2002

Aeroelastic and structural dynamic phenomena play an important role in many facets of engineering. In particular, an understanding of these disciplines is essential to the design of aircraft and space vehicles. 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. Both exact and approximate solution methodologies are stressed. More than one hundred illustrations and tables help clarify the text, while upwards of fifty problems enhance student learning.

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Fluid-solid interaction , American Society of Mechanical Engineers. Applied Mechanics Division. Shock and Vibration Committee, 1967, Aeroelasticity, 265 pages. .

On the nonlinear deformation geometry of Euler-Bernoulli beams , Dewey H. Hodges, Robert A. Ormiston, D. A. Peters, United States. National Aeronautics and Space Administration. Scientific and Technical Information Office, 1980, Mathematics, 50 pages. Nonlinear expressions are developed to relate the orientation of the deformed-beam cross section, torsion, local components of bending curvature, angular velocity, and virtual.

Report - David W. Taylor Model Basin, Issue 2388 , David W. Taylor Model Basin, 1967, Shipbuilding, . .

Effect of Chordwise Forces and Deformations Due to Steady Lift on Wing Flutter , Stanford University. Dept. of Aeronautics and Astronautics, William Newsome Boyd, 1977, , 244 pages. .

Principles of Aeroelasticity , Raymond L. Bisplinghoff, Holt Ashley, 2002, Technology & Engineering, 527 pages. Summary and general methods of constructing static and dynamic equations, dealing with the laws of mechanics for heated elastic solids, forms of aerodynamic operators.

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Manual on aeroelasticity, Volumes 3-4 , North Atlantic Treaty Organization. Advisory Group for Aeronautical Research and Development. Structures and Materials Panel, , Science, . .

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A Modern Course in Aeroelasticity , E.H. Dowell, Sep 30, 2004, Mathematics, 746 pages. In this new edition, the fundamental material on classical linear aeroelasticity has been revised. Also new material has been added describing recent results on the research.

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