



Aeroelasticity (Dover Books on Aeronautical Engineering)

Raymond L. Bisplinghoff, Holt Ashley, Robert L. Halfman

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Designed as both a textbook for advanced engineering students and a reference book for practicing engineers, this highly regarded work deals not only with the practical aspects of aeroelasticity, but the aerodynamic and structural tools upon which these rest. Accordingly, the book divides roughly into two halves: the first deals with the tools and the second with applications of the tools to aeroelastic phenomena. Topics include deformation of airplane structures under static and dynamic loads, approximate methods of computing natural mode shapes and frequencies, two- and three-dimensional incompressible flow, compressible flow, wings and bodies in three-dimensional unsteady flow, static aeroelastic phenomena, flutter, dynamic response phenomena, aeroelastic model theory, model design and construction, testing techniques and more. Chapters have been designed to progress from easy to difficult so that instructors using this book as an elementary text in aeroelasticity will find their purposes served by simply using the first parts of selected chapters.

Helpful appendixes deal with such mathematical tools as matrices and linear systems (prerequisites include the usual engineering mathematics courses and advanced calculus), while many numerical examples are included throughout the text. Engineering students as well as practicing engineers will find this work an unmatched treatment of the topic and an indispensable reference for their libraries.

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