



# **An Introduction to the Theory of Aeroelasticity (Dover Books on Aeronautical Engineering)**

*Y C Fung*

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# An Introduction to the Theory of Aeroelasticity (Dover Books on Aeronautical Engineering)

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Geared toward advanced undergraduates and graduate students, this outstanding text was written by one of the founders of bioengineering and modern biomechanics. It offers unusually thorough coverage of the interaction of aerodynamic forces and elastic structures. It has also proven highly useful to designers and engineers concerned with flutter, structural dynamics, flight loads, and related subjects. An introductory chapter covers concepts of aerodynamics, elasticity, and mechanical vibrations. Chapters 2 through 11 survey aeroelastic problems, their historical background, basic physical concepts, and the principles of analysis. Chapters 12 through 15 contain the fundamentals of oscillating airfoil theory and a brief summary of experimental results. Each chapter is followed by a bibliography, and 147 illustrations and 20 tables illuminate the text.

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