



Theoretical and Computational Aeroelasticity

Dr. William. P Rodden

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This is an advanced text for practicing aerospace, structural, and mechanical engineers as well as graduate engineering students. The emphasis is on the problems fixed-wing aircraft experience in flight. It includes discussions of the history of aeroelasticity, the fundamentals of steady and unsteady aerodynamics as well as structural deflection and vibration theory. Issues of quasi-steady maneuvering flight and flutter stability are considered along with transient response to landing and gust loads and random response to atmospheric turbulence and runway roughness. The final chapters of the book cover aeroservoelasticity wing movement and flight control matters; aerothermoelasticity wing movement and the effects of temperature and thermal stresses; and, aeroelastic design by optimization based on the author's lifetime of work as a consulting aeronautical engineer and teacher in the field of aeroelasticity. The alphabetical reference list is comprehensive. Several appendices review relevant prerequisite material and historical topics.

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