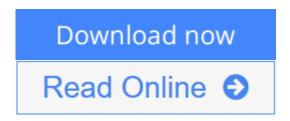


Structural Dynamics in Aeronautical Engineering (AIAA Education)

By Maher N Bismarck-Nasr, Instituto Tecnologico De Aeronautica M Bismarck-Nasr



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Structural Dynamics in Aeronautical Engineering is a comprehensive introduction to the modern methods of dynamic analysis of aeronautical structures. The text is particularly suitable for undergraduate students. For advanced students, the text provides numerous references on seminal work on structural dynamics that can be used for graduate level research. The text represents carefully developed course materials, beginning with an introductory chapter on matrix algebra and methods for numerical computations, followed by a series of chapters discussing specific aeronautical applications. In this way, the student can be guided from the simple concept of a single-degree-of-freedom structural system to the more complex multiple-degree-of-freedom and continuous systems, including random vibrations, nonlinear systems and aeroelastic phenomena. Among the various examples used in the text, the chapter on aeroelasticity of flight vehicles is particularly noteworthy with its clear presentation of the phenomena and its mathematical formulation for structural and aerodynamic loads.



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