



# A Modern Course in Aeroelasticity (Solid Mechanics and Its Applications)

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Aeroelasticity is the study of flexible structures situated in a flowing fluid. Its modern origins are in the field of aerospace engineering, but it has now expanded to include phenomena arising in other fields such as bioengineering, civil engineering, mechanical engineering and nuclear engineering. The present volume is a teaching text for a first, and possibly second, course in aeroelasticity. It will also be useful as a reference source on the fundamentals of the subject for practitioners. In this third edition, several chapters have been revised and three new chapters added. The latter include a brief introduction to 'Experimental Aeroelasticity', an overview of a frontier of research 'Nonlinear Aeroelasticity', and the first connected, authoritative account of 'Aeroelastic Control' in book form.

The authors are drawn from a range of fields including aerospace engineering, civil engineering, mechanical engineering, rotorcraft and turbomachinery. Each author is a leading expert in the subject of his chapter and has many years of experience in consulting, research and teaching.

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### **Editorial Review**

Review

`... the text succeeds on three levels: as an introductory text for newcomers to aeroelasticity, as a reference text for professionals working in the field, and as a source book for researchers. The wide range of topics covered provides a fascinating insight into the cross-fertilization that can occur between seemingly disparate engineering disciplines ... There is little doubt that most workers in the field will wish to have access to this text.'

**Journal of Sound and Vibration, 196:5 (1996)**

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