

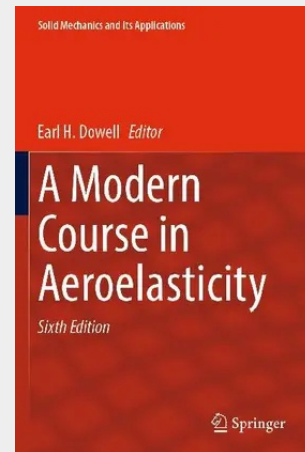
A Modern Course in Aeroelasticity

This book is the sixth edition. It is suitable for one or more courses at the advanced undergraduate level and graduate level to cover the field of aeroelasticity. It is also of value to the research scholar and engineering practitioner who wish to understand the state of the art in the field.

This book covers the basics of aeroelasticity or the dynamics of fluid–structure interaction. While the field began in response to the rapid development of aviation, it has now expanded into many branches of engineering and scientific disciplines and treats physical phenomena from aerospace engineering, bioengineering, civil engineering, and mechanical engineering in addition to drawing the attention of mathematicians and physicists.

The basic questions addressed are dynamic stability and response of fluid structural systems as revealed by both linear and nonlinear mathematical models and correlation with experiment. The use of scaled models and full-scale experiments and tests play a key role where theory is not considered sufficiently reliable.

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299,59 €

279,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030742386

Medium: Buch

ISBN: 978-3-030-74238-6

Verlag: Springer

Erscheinungstermin: 16.10.2022

Sprache(n): Englisch

Auflage: Sixth Auflage 2022

Serie: Solid Mechanics and Its Applications

Produktform: Kartoniert

Gewicht: 1406 g

Seiten: 807

Format (B x H): 155 x 235 mm

