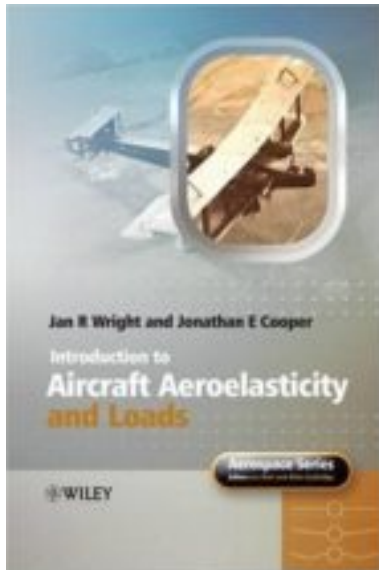


# INTRODUCTION TO AIRCRAFT AEROELASTICITY AND LOADS



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<b>Autor:</b>	JAN ROBERT WRIGHT
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A substantially updated second edition of this established text offering comprehensive coverage of aeroelasticity and dynamics loads. Introduction to Aircraft Aeroelasticity and Loads, 2nd Edition is a substantially updated new edition offering comprehensive coverage of aeroelasticity and dynamics loads. It introduces the reader to the main principles involved in a wide range of aeroelasticity and loads topics. The book begins by reviewing the underlying disciplines of vibrations, aerodynamics, loads and control, and goes on to describe simplified models to illustrate aeroelastic behaviour and aircraft response before introducing more advanced methodologies. Finally, it explains how industrial certification requirements for aeroelasticity and loads may be met and relates these to the earlier theoretical approaches used. In this new edition, there are major revisions to the chapters on flutter and aeroservoelasticity and significant updates and reorganisation of the finite element chapters. This book is now accompanied by a website containing a solutions manual and MATLAB and SIMULINK programs. A substantially updated second edition of this established text offering comprehensive coverage of aeroelasticity and dynamics loads.

Uses a unified simple aeroelastic model throughout the book. Major revisions to flutter and aeroservoelasticity chapters for ease of reference.

Significant updates and reorganisation of chapters on finite elements Updates certification requirements. Accompanied by a website containing a solutions manual and MATLAB and SIMULINK programs that relate to the models used. Suitable textbook for graduate courses on aeroelasticity.