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**Gerard De Vries** 

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Introduction to Aircraft Aeroelasticity and Loads Jan Robert Wright, Jonathan Edward Cooper, 2008-02-08 Aircraft performance is influenced significantly both by aeroelastic phenomena arising from the interaction of elastic inertial and aerodynamic forces and by load variations resulting from flight and ground manoeuvres and gust turbulence encounters. There is a strong link between aeroelasticity and loads and these topics have become increasingly integrated in recent years. Introduction to Aircraft Aeroelasticity and Loads introduces the reader to the main principles involved in a wide range of aeroelasticity and loads topics. Divided into three sections the book begins by reviewing the underlying disciplines of vibrations aerodynamics loads and control. It 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 Presents fundamentals of structural dynamics aerodynamics static and dynamic aeroelasticity response and load calculations and testing techniques. Covers performance issues related to aeroelasticity such as flutter control effectiveness divergence and redistribution of lift Includes up to date experimental methods and analysis Accompanied by a website with MatLAB and SIMULINK programs that relate to the models used Introduction to Aircraft Aeroelasticity and Loads enables the reader to understand the aeroelastic and loads principles and procedures employed in a modern aircraft design office. It will appeal to

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Whitaker's Books in Print 1,1998

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included The citations are not restricted to the English language and documents are listed in many languages and from diverse places of origin All publication formats were accepted so that references will be found to books monographs journal papers and articles theses dissertations reports surveys and the like NASA SP., 1991 Technical Abstract Bulletin, 1967 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1962 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December Aero/space Engineering, 1958

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