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SECOND EDITION

C. T. SUN

Mechanics Of Aircraft Structures

J.E. Younger

Mechanics Of Aircraft Structures:

Mechanics of Aircraft Structures C. T. Sun, Ashfaq Adnan, 2021-09-28 MECHANICS OF AIRCRAFT STRUCTURES Explore the most up to date overview of the foundations of aircraft structures combined with a review of new aircraft materials. The newly revised Third Edition of Mechanics of Aircraft Structures delivers a combination of the fundamentals of aircraft structure with an overview of new materials in the industry and a collection of rigorous analysis tools into a single one stop resource. Perfect for a one semester introductory course in structural mechanics and aerospace engineering the distinguished authors have created a textbook that is also ideal for mechanical or aerospace engineers who wish to stay updated on recent advances in the industry. The new edition contains new problems and worked examples in each chapter and improves student accessibility. A new chapter on aircraft loads and new material on elasticity and structural idealization form part of the expanded content in the book. Readers will also benefit from the inclusion of A thorough introduction to the characteristics of aircraft structures and materials including the different types of aircraft structures and their basic structural elements. An exploration of load on aircraft structures including loads on wing, fuselage, landing gear and stabilizer structures. An examination of the concept of elasticity including the concepts of displacement, strain and stress and the equations of equilibrium in a nonuniform stress field. A treatment of the concept of torsion. Perfect for senior undergraduate and graduate students in aerospace engineering. Mechanics of Aircraft Structures will also earn a place in the libraries of aerospace engineers seeking a one stop reference to solidify their understanding of the fundamentals of aircraft structures and discover an overview of new materials in the field. *Mechanics of Aircraft Structures* Chin-Teh Sun, 1998 This combined text and professional reference presents what every structural engineer needs to know about modern aircraft structures.

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Mechanics of Aircraft Structures Juraj Hub, Univerzita obrany. Katedra letecké a raketové techniky, 2013

Mechanics of Aircraft Structures by John E. Younger John Elliott Younger,1942 Mechanics of Aircraft Structures.
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Applications of Fracture Mechanics to Aircraft Structures - Some Problems of Materials Behaviour R.F.W. Anstee,1976

Bonded Repair of Aircraft Structures A. Baker,Jones,1988-05-31 The conventional approach to through life support for aircraft structures can be divided into the following phases i detection of defects ii diagnosis of their nature and significance iii forecasting future behaviour prognosis and iv pre prescription and implementation of remedial measures including repairs Considerable scientific effort has been devoted to developing the science and technology base for the first three phases Of particular note is the development of fracture mechanics as a major analytical tool for metals for predicting residual strength in the presence of cracks damage tolerance and rate of crack propagation under service loading Intensive effort is currently being devoted to developing similar approaches for fibre composite structures particularly to assess damage tolerance and durability in the presence of delamination damage Until recently there has been no major attempt to develop a science and technology base for the last phase particularly with respect to the development of repairs Approaches are required which will allow assessment of the type and magnitude of defects amenable to repair and the influence of the repair on the stress intensity factor or some related parameter Approaches are also required for the development and design of optimum repairs and for assessment of their durability

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