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structures New practical and design-based examples and problems throughout the text aid understanding and relate concepts to real world applications Updated and additional Matlab examples and exercises support use of computational tools in analysis and design Available online teaching and learning tools include downloadable Matlab code, solutions manual, and image bank of figures from the book

This legendary, still-relevant reference text on aircraft stress analysis discusses basic structural theory and the application of the elementary principles of mechanics to the analysis of aircraft structures. 1950 edition.

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Mechanics of Aircraft Structures, Second Edition is the revised update of the original bestselling textbook about aerospace engineering. This

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book covers the materials and analysis tools used for aircraft structural design and mechanics in the same easy to understand manner. The new edition focuses on three levels of coverage driven by recent advances in industry: the increase in the use of commercial finite element codes require an improved capability in students to formulate the problem and develop a judgement of the accuracy of the numerical results; the focus on fracture mechanics as a tool in studying damage tolerance and durability has made it necessary to introduce students at the undergraduate level to this subject; a new class of materials including advanced composites, are very different from the traditional metallic materials, requiring students and practitioners to understand the advantages the new materials make possible. This new edition will provide more homework problems for each chapter, more examples, and more details in some of the derivations.

The author uses practical applications and real aerospace situations to illustrate concepts in the text covering modern topics including landing gear analysis, tapered beams, cutouts and composite materials. Chapters are included on statically determinate and statically indeterminate structures to serve as a review of material previously

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learned. Each chapter in the book contains methods and analysis, examples illustrating methods and homework problems for each topic.

This text provides students who have had statics and introductory strength of materials with the necessary tools to perform stress analysis on aerospace structures such as wings, tails, fuselages, and space frames. It progresses from introductory continuum mechanics through strength of materials of thin-walled structures to energy methods, culminating in an introductory chapter on the powerful finite element method.

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