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

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for each topic.

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.

Based on the author's best-selling text, *Aircraft Structures for Engineering Students*, this brief book covers the basics of structural analysis as applied to aircraft structures. Coverage of elasticity, energy methods and virtual work set the stage for discussions of airworthiness/airframe loads and stress analysis of aircraft components. Numerous worked examples, illustrations, and sample problems show how to apply the concepts to realistic situations. Self-contained, this value-priced book is an excellent resource for anyone learning the subject. Based on the author's best-selling text *Aircraft Structures for Engineering Students*, this introduction covers core concepts in about 160 fewer pages than the original by removing some optional topics like structural vibrations, structural and

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loading discontinuities, and aeroelasticity
Expanded coverage of composite materials and structures
New practical and design-based examples and problems throughout the text aid understanding and relate concepts to real world applications
Available online teaching and learning tools include downloadable Matlab code, solutions manual, and image bank of figures from the book

As with the first edition, this textbook provides a clear introduction to the fundamental theory of structural analysis as applied to vehicular structures such as aircraft, spacecraft, automobiles and ships. The emphasis is on the application of fundamental concepts of structural analysis that are employed in everyday engineering practice. All approximations are accompanied by a full explanation of their validity. In this new edition, more topics, figures, examples and exercises have been added. There is also a greater emphasis on the finite element method of analysis. Clarity remains the hallmark of this text and it employs three strategies to achieve clarity of presentation: essential introductory topics are covered, all approximations are fully explained and many important concepts are repeated.

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

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