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2222 ) 2 (2 aCa L b – = – = , where 2 ) 2  
(2 L C = (3.4.4) Substituting (3.4.4) into  
(3.4.2) we have, 22 aCaAellp – = We  
can find the optimum solution by 0=  
a A , by some operations leads to 0 2 22 22 =  
– – = aC aC a A , therefore we  
have 2 2 C a = for 0, >ba Substitute it back  
to (3.4.4), we have a C b == 2 2 (3.4.5) That~~

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means the optimum cross-section for elliptical shapes is a circle.

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7.2 A bar is built-in at the left end and supported at the tight end by a linear spring with spring constant  $k$ . Find the equation for buckling loads. Hint: The boundary conditions are  $0 = w$  and  $0 = \frac{dw}{dx}$  at the left end; and  $0 = M$  and  $0 = V$  at the right end.

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So we can determine the shear center by  
 $= q V M M \Rightarrow z z z sc z V V V y V 055. 0$   
 $06. 0) 055. 0 ( - - - = \Rightarrow m y sc 17. 0 -$   
= The negative sign indicates the opposite side as we assumed.--- ANS (b) Figure 5.32  
(1) Since this cross-section is symmetric with respect to y axis, shear center is located in the y axis.

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Structural theory and the application of the elementary principles of mechanics to the analysis of aircraft structures. 1950 edition.

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motivate students, and includes an in-depth description of energy methods - an essential topic.

The basic partial differential equations for the stresses and displacements in classical three dimensional elasticity theory can be set up in three ways: (1) to solve for the displacements first and then the stresses; (2) to solve for the stresses first and then the displacements; and (3) to solve for both stresses and displacements simultaneously. These three methods are identified in the literature as (1) the displacement method, (2) the stress or force method, and (3) the combined or mixed method. Closed form solutions of the partial differential equations with their complicated boundary conditions for any of these three methods have been obtained only in special cases. In order to obtain solutions, various special methods have been developed to determine the

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stresses and displacements in structures. The equations have been reduced to two and one dimensional forms for plates, beams, and trusses. By neglecting the local effects at the edges and ends, satisfactory solutions can be obtained for many case~. The procedures for reducing the three dimensional equations to two and one dimensional equations are described in Chapter 1, Volume 1, where the various approximations are pointed out.

Aircraft Structures for Engineering Students, Fifth Edition, is the leading self-contained aircraft structures course text. It covers all fundamental subjects, including elasticity, structural analysis, airworthiness, and aeroelasticity. The author has revised and updated the text throughout and added new examples and exercises using Matlab.

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Additional worked examples make the text even more accessible by showing the application of concepts to airframe structures. The text is designed for undergraduate and postgraduate students of aerospace and aeronautical engineering. It is also suitable for professional development and training courses. New worked examples throughout the text aid understanding and relate concepts to real world applications Matlab examples and exercises added throughout to support use of computational tools in analysis and design An extensive aircraft design project case study shows the application of the major techniques in the book

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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. The distinguished authors have included Python code on the companion website that readers can use to solve design optimization problems. Readers will also benefit from the inclusion of: A thorough introduction to the characteristics

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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.

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**Solution** 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.

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