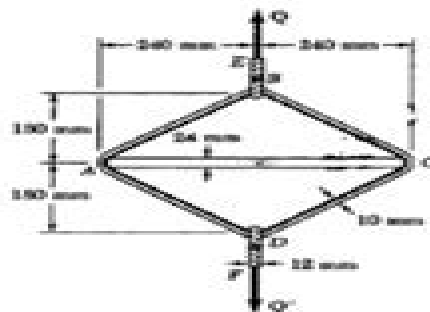


PROBLEM L67



L67 A steel loop ABCD of length 1.2 m and of 10-mm diameter is placed as shown around a 24-mm-diameter aluminum rod AC. Cables BE and DF, each of 12-mm diameter, are used to apply the load Q. Knowing that the ultimate strength of the aluminum used for the rod is 260 MPa, and that the ultimate strength of the steel used for the loop and the cables is 480 MPa, determine the largest load Q which can be applied if an overall factor of safety of 3 is desired.

SOLUTION

Using joint B as a free body and considering symmetry

$$2 \cdot \frac{3}{5} F_{AB} - Q = 0$$

$$Q = \frac{5}{3} F_{AB}$$



Using joint A as a free body and considering symmetry

$$2 \cdot \frac{4}{5} F_{AC} - F_{AC} = 0$$

$$\frac{3}{5} \cdot \frac{5}{3} Q - F_{AC} = 0 \quad \therefore \quad Q = \frac{3}{4} F_{AC}$$



Based on strength of cable BE

$$Q_u = \sigma_u A = \sigma_u \frac{\pi}{4} d^2 = (480 \times 10^6) \frac{\pi}{4} (0.012)^2 = 54.29 \times 10^3 \text{ N}$$

Based on strength of steel loop

$$\begin{aligned} Q_u &= \frac{5}{3} F_{AB,u} = \frac{5}{3} \sigma_u A = \frac{5}{3} \sigma_u \frac{\pi}{4} d^2 \\ &= \frac{5}{3} (480 \times 10^6) \frac{\pi}{4} (0.010)^2 = 45.24 \times 10^3 \text{ N} \end{aligned}$$

Based on strength of rod AC

$$\begin{aligned} Q_u &= \frac{3}{4} F_{AC,u} = \frac{3}{4} \sigma_u A = \frac{3}{4} \sigma_u \frac{\pi}{4} d^2 \\ &= \frac{3}{4} (260 \times 10^6) \frac{\pi}{4} (0.024)^2 = 88.22 \times 10^3 \text{ N} \end{aligned}$$

Actual ultimate load Q_u is the smallest $\therefore Q_u = 45.24 \times 10^3 \text{ N}$

$$\text{Allowable load } Q = \frac{Q_u}{F.S.} = \frac{45.24 \times 10^3}{3} = 15.08 \times 10^3 \text{ N}$$

$$= 15.08 \text{ kN}$$

Mechanics Of Materials Homework Solutions

Bonnie A. Osif



Mechanics Of Materials Homework Solutions:

Mechanics of Materials Christopher Jenkins, Sanjeev Khanna, 2005-03-15 The unifying treatment of structural design presented here should prove useful to any engineer involved in the design of structures A crucial divide to be bridged is that between applied mechanics and materials science The onset of specialization and the rapid rise of technology however have created separate disciplines concerned with the deformation of solid materials Unfortunately the result is in many cases that society loses out on having at their service efficient high performance material structural systems We follow in this text a very methodological process to introduce mechanics materials and design issues in a manner called total structural design The idea is to seek a solution in total design space The material presented in this text is suitable for a first course that encompasses both the traditional mechanics of materials and properties of materials courses The text is also appropriate for a second course in mechanics of materials or a follow on course in design of structures taken after the typical introductory mechanics and properties courses This text can be adapted to several different curriculum formats whether traditional or modern Instructors using the text for a traditional course may find that the text in fact facilitates transforming their course over time to a more modern integrated approach

BOOK JACKET **Mechanics of Materials** Roy R. Craig, Jr., Eric M. Taleff, 2020-08-04 The fourth edition of *Mechanics of Materials* is an in depth yet accessible introduction to the behavior of solid materials under various stresses and strains Emphasizing the three key concepts of deformable body mechanics equilibrium material behavior and geometry of deformation this popular textbook covers the fundamental concepts of the subject while helping students strengthen their problem solving skills Throughout the text students are taught to apply an effective four step methodology to solve numerous example problems and understand the underlying principles of each application Focusing primarily on the behavior of solids under static loading conditions the text thoroughly prepares students for subsequent courses in solids and structures involving more complex engineering analyses and Computer Aided Engineering CAE The text provides ample fully solved practice problems real world engineering examples the equations that correspond to each concept chapter summaries procedure lists illustrations flow charts diagrams and more This updated edition includes new Python computer code examples problems and homework assignments that require only basic programming knowledge

Statics and Mechanics of Materials William F. Riley, Leroy D. Sturges, Don H. Morris, 2001-10-30 The second edition of *Statics and Mechanics of Materials An Integrated Approach* continues to present students with an emphasis on the fundamental principles with numerous applications to demonstrate and develop logical orderly methods of procedure Furthermore the authors have taken measure to ensure clarity of the material for the student Instead of deriving numerous formulas for all types of problems the authors stress the use of free body diagrams and the equations of equilibrium together with the geometry of the deformed body and the observed relations between stress and strain for the analysis of the force system action of a body

Mechanics of Materials Timothy A. Philpot, Jeffery S.

Thomas,2020-06-30 The well regarded materials science textbook updated for enhanced learning and current content Mechanics of Materials An Integrated Learning System 5th Edition helps engineering students visualize how materials move and change better than any other course available This text focuses on helping learners develop practical skills encouraging them to recognize fundamental concepts relevant to specific situations identify equations needed to solve problems and engage critically with literature in the field In this new edition hundreds of new problems including over 200 problems with video solutions have been added to enhance the flexibility and robustness of the course With WileyPLUS this course contains a rich selection of online content and interactive materials including animations tutorial videos and worked problems many of which are new and expanded in this 5th Edition An emphasis on critical thinking forms the foundation of Mechanics of Materials in this revised edition From basic concepts of stress and strain to more advanced topics like beam deflections and combined loads this book provides students with everything they need to embark on successful careers in materials and mechanical engineering Introduces students to the core concepts of material mechanics and presents the latest methods and current problems in the field Adds hundreds of new and revised problems 200 new video solutions and over 400 new EQAT coded algorithmic problems Emphasizes practical skills and critical thinking encouraging learners to devise effective methods of solving example problems Contains updates and revisions to reflect the current state of the discipline and to enhance the breadth of course content Includes access to interactive animations demonstration videos and step by step problem solutions with WileyPLUS online environment With added flexibility and opportunities for course customization Mechanics of Materials provides excellent value for instructors and students alike Learners will stay engaged and on track gaining a solid and lasting understanding of the subject matter **Mechanics of Materials** Bichara B. Muvdi,Souhail Elhouar,2016-09-19 Mechanics of Materials With Applications in Excel covers the fundamentals of the mechanics of materials or strength of materials in a clear and easily understandable way Each chapter explains the theory of the underlying principles and the applicable mathematical relations offering examples that illustrate the application of the mathematical relations to physical situations Then homework problems arranged from the simplest to the most demanding are presented along with a number of challenging review problems to ensure comprehension of key concepts What makes this book unique is that it also instills practical skills for developing Microsoft Excel applications to solve mechanics of materials problems using numerical techniques Mechanics of Materials With Applications in Excel provides editable Excel spreadsheets representing all the examples featured in the text PowerPoint lecture slides multimedia simulations graphics files and a solutions manual with qualifying course adoption **Principles of Composite Material Mechanics** Ronald F. Gibson,2016-02-10 Principles of Composite Material Mechanics covers a unique blend of classical and contemporary mechanics of composites technologies It presents analytical approaches ranging from the elementary mechanics of materials to more advanced elasticity and finite element numerical methods discusses novel materials such as nanocomposites and

hybrid multis Quantum Mechanics For Engineers And Material Scientists: An Introduction M P Anantram (Anant), Daryoush Shiri, 2024-01-16 This introductory book is aimed at students of engineering and material science who want to learn the necessary toolboxes of practical quantum mechanics. The authors have made sure that all the calculations are complete and they have avoided the usage of the familiar phrase 'it can be easily shown' while being mathematically rigorous. Knowledge of the sophomore level introduction to ordinary differential equations is all that is needed. Well designed and modern examples help the reader grasp and digest the concept before moving to the next one. The book offers a lucid exposition to the modern field of quantum computing and quantum gates, two level systems, orbitals, spin, periodic solids, tunneling, and Fermi golden rule. The basics of electronic and optical properties of nanomaterials using the basics of quantum mechanics are presented without the reader getting lost in research articles with different notations and units. There are numerous examples in the book covering topics such as carbon nanotubes, graphene, superconducting qubits, principle of scanning tunneling microscopy, heterostructure based terahertz generation and negative differential resistance device, quantized LC circuit, Grover's search algorithm, phase kickback, quantum dots, well, nanowires, quantum of conductance, ballistic conductor, spin orbit coupling, and spin transistor. Authors use analogies based on familiar engineering concepts wherever possible to broaden the view of the reader. The philosophy behind the book is teaching by showing how it is done and using pictures which is worth 1000 words.

Mechanics of Materials William F. Riley, Leroy D. Sturges, Don H. Morris, 2006-02-24 This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load carrying capacity. Written in an accessible style, it emphasizes the basics such as design, equilibrium, material behavior, and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress-strain and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

Mechanics of Materials Ferdinand Pierre Beer, Johnston, Dewolf, David F., Mazurek, 2012 We are pleased to present the Global Edition which has been developed specifically to meet the needs of international students of engineering mechanics. In addition to a precise presentation of the subject, illustrated with numerous engineering examples from theory and practice, we have added new material to make the content more relevant and improve learning outcomes for the international student. Used by thousands of students around the globe since its publication in 1981, *Mechanics of Materials* provides a precise presentation of the subject, illustrated with numerous engineering examples that students both understand and relate to theory and application. The tried and true methodology for presenting material gives your student the best opportunity to succeed in this course. From the detailed examples to the homework problems to the carefully developed solutions manual, you and your students can be confident the material is clearly explained and accurately represented.

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Hibbeler,S. C. Fan,2004 Offering a concise and thorough presentation of engineering mechanics theory and application this material is reinforced with numerous examples to illustrate principles and imaginative well illustrated problems of varying degrees of difficulty It includes pedagogical features that have made Hibbeler synonymous with excellence in the field

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