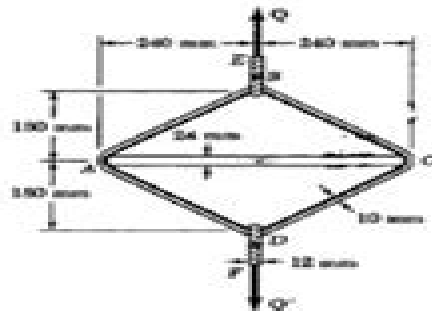


PROBLEM 1.67



1.67 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

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

$$Q = \frac{4}{3} F_{BE}$$



Using joint A as a free body and considering symmetry

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

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



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

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

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 $\therefore Q_u = 45.24 \times 10^3 \text{ N}$

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

$$= 15.08 \text{ kN}$$

Mechanics Of Materials Homework Solutions

Wolfgang Guggemos



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 [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

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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.

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Physics for Scientists and Engineers, Volume 1: Mechanics, Oscillations and Waves; Thermodynamics Paul A. Tipler,Gene Mosca,2003-07-10 This is the standard text for introductory physics courses taken by science and engineering students This edition has been extensively revised with new artwork and updated examples

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