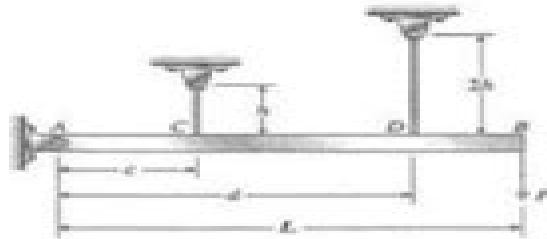
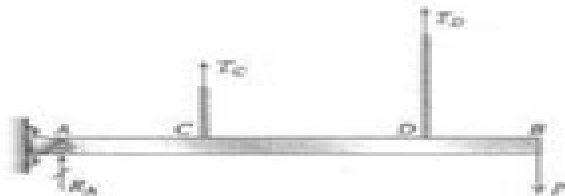


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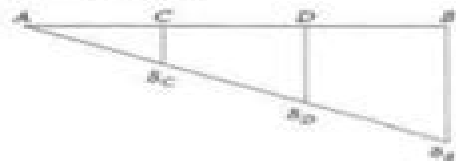


$h = 18 \text{ in.}$
 $2h = 36 \text{ in.}$
 $c = 20 \text{ in.}$
 $d = 50 \text{ in.}$
 $L = 66 \text{ in.}$
 $E = 30 \times 10^6 \text{ psi}$
 $A = 0.0272 \text{ in.}^2$
 $P = 340 \text{ lb}$

FREE-BODY DIAGRAM



DISPLACEMENT DIAGRAM



EQUATION OF EQUILIBRIUM

$$\sum M_A = 0 \quad \curvearrowright \quad T_C(c) + T_D(d) = PL \quad (\text{Eq. 1})$$

EQUATION OF COMPATIBILITY

$$\frac{\delta_C}{c} = \frac{\delta_D}{d} \quad (\text{Eq. 2})$$

FORCE-DISPLACEMENT RELATIONS

$$\delta_C = \frac{T_C h}{EA} \quad \delta_D = \frac{T_D (2h)}{EA} \quad (\text{Eqs. 3, 4})$$

SOLUTION OF EQUATIONS

Substitute (3) and (4) into Eq. (2):

$$\frac{T_C h}{cEA} = \frac{T_D (2h)}{dEA} \quad \text{or} \quad \frac{T_C}{c} = \frac{2T_D}{d} \quad (\text{Eq. 5})$$

TENSILE FORCES IN THE WIRES

Solve simultaneously Eqs. (1) and (5):

$$T_C = \frac{2cPL}{2c^2 + d^2} \quad T_D = \frac{dPL}{2c^2 + d^2} \quad (\text{Eqs. 6, 7})$$

TENSILE STRESSES IN THE WIRES

$$\sigma_C = \frac{T_C}{A} = \frac{2cPL}{A(2c^2 + d^2)} \quad (\text{Eq. 8})$$

$$\sigma_D = \frac{T_D}{A} = \frac{dPL}{A(2c^2 + d^2)} \quad (\text{Eq. 9})$$

DISPLACEMENT AT END OF BAR

$$\delta_B = \delta_D \left(\frac{L}{d} \right) = \frac{2hT_D}{EA} \left(\frac{L}{d} \right) = \frac{2hPL^2}{EA(2c^2 + d^2)} \quad (\text{Eq. 10})$$

SUBSTITUTE NUMERICAL VALUES

$$2c^2 + d^2 = 2(20 \text{ in.})^2 + (50 \text{ in.})^2 = 3300 \text{ in.}^2$$

$$\begin{aligned} \text{(a)} \quad \sigma_C &= \frac{2cPL}{A(2c^2 + d^2)} = \frac{2(20 \text{ in.})(340 \text{ lb})(66 \text{ in.})}{(0.0272 \text{ in.}^2)(3300 \text{ in.}^2)} \\ &= 10,000 \text{ psi} \quad \leftarrow \end{aligned}$$

$$\begin{aligned} \sigma_D &= \frac{dPL}{A(2c^2 + d^2)} = \frac{(50 \text{ in.})(340 \text{ lb})(66 \text{ in.})}{(0.0272 \text{ in.}^2)(3300 \text{ in.}^2)} \\ &= 12,500 \text{ psi} \quad \leftarrow \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad \delta_B &= \frac{2hPL^2}{EA(2c^2 + d^2)} \\ &= \frac{2(18 \text{ in.})(340 \text{ lb})(66 \text{ in.})^2}{(30 \times 10^6 \text{ psi})(0.0272 \text{ in.}^2)(3300 \text{ in.}^2)} \\ &= 0.0198 \text{ in.} \quad \leftarrow \end{aligned}$$

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Mechanics Of Materials 9th Edition Solutions:

Mechanics of Materials - Formulas and Problems Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-11-25 This book contains the most important formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Stress Strain Hooke's Law Tension and Compression in Bars Bending of Beams Torsion Energy Methods Buckling of Bars Hydrostatics **Mechanics of Laminated Composite Structures** Chyanbin Hwu, 2024-06-04

In this textbook for students of laminated composite materials composite structures and anisotropic elasticity Chyanbin Hwu draws on more than three decades of research and applications experience to provide a leading resource on many unique topics related to laminated composite structures This book introduces the mechanical behavior of laminated composite materials and provides related theories and solutions All basic structural elements such as beams plates and shells are described in detail Further contents include composite sandwich construction and composite wing structures To connect with practical engineering applications and analyze more complicated real structures numerical methods and their theoretical basis in anisotropic elasticity are also included Advanced topics addressed include solutions for magneto electro elastic laminated plates Green's functions for thick laminated plates and beams typical thick laminated beams theory for general laminated composite shells sandwich beams plates and cylindrical shells as well as delaminated composite sandwich beams modeling and analysis of composite wing structures complex variable theories of anisotropic elasticity and the related Green's functions and numerical methods such as finite element method boundary element method and meshless method Through this book readers will learn not only the mechanics of laminated composite structures but also anisotropic elasticity and some popular numerical methods This textbook is vital for advanced undergraduate and graduate students interested in the mechanics of composite materials composite structures and anisotropic elasticity such as aerospace mechanical civil and naval engineering applied mechanics and engineering science It is also useful for engineers working in these fields and applied mathematicians and material scientists Using the Engineering Literature, Second Edition Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links on a topic engineers need the best information information that is evaluated up to date and complete Accurate vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award winning first edition of Using the Engineering Literature used a roadmap analogy we now need a three dimensional analysis reflecting the complex and dynamic nature of research in the information age Using the Engineering

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manners The collection of papers in this book is the outcome of a workshop held at Aachen University of Technology in November 2007 The individual contributions stem in particular from the areas of new numerical developments rendering the methods more attractive for industrial design extensions of the general methodology to new horizons of application probabilistic approaches and concrete technological applications The papers are arranged according to the order of the presentations in the workshop and give an excellent insight into state of the art developments in this broad and growing field of research The editors warmly thank all the scientists who have contributed by their outstanding papers to the quality of this edition Special thanks go to Jaan Simon for his great help in putting together the manuscript to its final shape

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