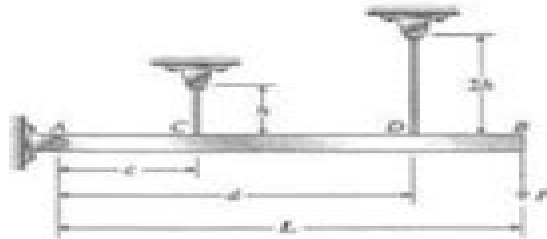
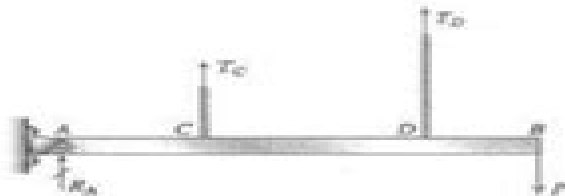


# Problem 2.4-21

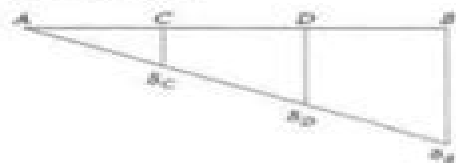


$h = 18 \text{ in.}$   
 $2h = 36 \text{ in.}$   
 $c = 20 \text{ in.}$   
 $d = 50 \text{ in.}$   
 $L = 66 \text{ in.}$   
 $E = 30 \times 10^6 \text{ psi}$   
 $A = 0.0272 \text{ in.}^2$   
 $P = 340 \text{ lb}$

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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**Elementary Introduction to Practical Mechanics** John Francis Twisden,1886 DeGarmo's Materials and Processes in Manufacturing J. T. Black,Ronald A. Kohser,2011-08-30 Now in its eleventh edition DeGarmo s Materials and Processes in Manufacturing has been a market leading text on manufacturing and manufacturing processes courses for more than fifty years Authors J T Black and Ron Kohser have continued this book s long and distinguished tradition of exceedingly clear presentation and highly practical approach to materials and processes presenting mathematical models and analytical equations only when they enhance the basic understanding of the material Completely revised and updated to reflect all current practices standards and materials the eleventh edition has new coverage of additive manufacturing lean engineering and processes related to ceramics polymers and plastics The Finite Element Method in Thermomechanics Tai-Ran Hsu,2012-12-06 The rapid advances in the nuclear and aerospace technologies in the past two decades compounded with the increasing demands for high performance energy efficient power plant components and engines have made reliable thermal stress analysis a critical factor in the design and operation of such equipment Recently and as experienced by the author the

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