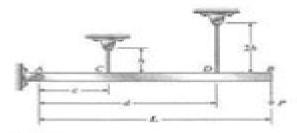
Problem 2.4-21



A - 18 in.

2k - 36 in.

c = 20 in.

d = 50 in.

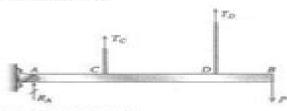
L - 66 in.

 $E = 30 \times 10^6 \text{ psi}$

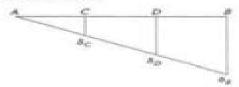
 $A = 0.0272 \text{ in}^{-2}$

P = 340.06

FIGURE-BODY DEAGRAM



DESPLACEMENT DESCRAM



(Eig. 1):

Есситом от воспавносм

$$\Sigma M_A = 0 \Leftrightarrow T_C(c) + T_D(d) = PL$$

EQUATION OF COMPREHILITY.

$$\frac{\delta_c}{c} = \frac{\delta_D}{d}$$
 (Eq. 2)

FORCE-DESPLACEMENT RELATIONS

$$\delta_C = \frac{T_C h}{E \Lambda}$$
 $\delta_D = \frac{T_D (2h)}{E \Lambda}$ (Eqs. 3, 4)

SOLUTION OF EQUIPMENT

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

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

TENSOR PURCES BY THE WHEEK

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

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

Trevenue symmetries are true, within

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

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

DISPLACIONISM AT END OF BAR.

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

SCHRITTETE NUMERICAL VALUE

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

(a)
$$\sigma_C = \frac{2cPL}{A(2c^2 + d^2)} = \frac{2(20 \text{ in.})(340 \text{ lb})(66 \text{ in.})}{(0.0272 \text{ in.}^2)(3300 \text{ in.}^2)}$$

 $= 10,000 \text{ psi} \qquad \leftarrow$

$$\sigma_D = \frac{dPL}{A(2c^2 + d^2)} = \frac{(50 \text{ in.})(340 \text{ lb})(66 \text{ in.})}{(0.0272 \text{ in.}^2)(3300 \text{ in.}^2)}$$

$$A(2c^2 + d^2) = (0.0272 \text{ in.}^2)(3300 \text{ in.}^2)$$

= 12.500 psi \leftarrow
(b) $\delta_B = \frac{2APL^2}{EA(2c^2 + d^2)}$

$$= \frac{2(18 \text{ in.})(340 \text{ fb})(66 \text{ in.})^2}{(30 \times 10^6 \text{ pai})(0.0272 \text{ in.}^2)(3300 \text{ in.}^2)}$$

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Michael F. Ashby, Hugh Shercliff, David Cebon

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