

Problem 439

A beam supported on three reactions as shown in Fig. P-439 consists of two segments joined by frictionless hinge at which the bending moment is zero.

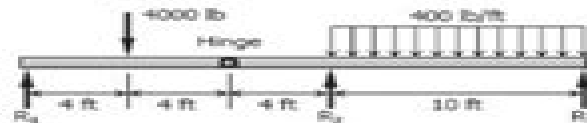
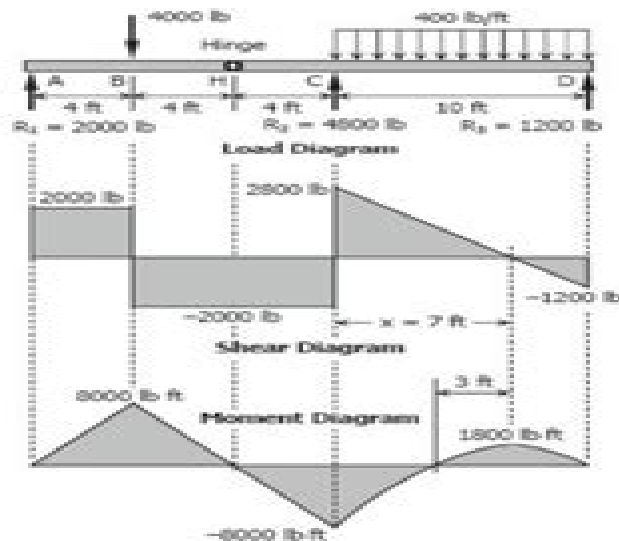


Figure P-439

Solution 439



To draw the Shear Diagram

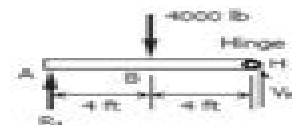
- (1) $V_A = 0$
- (2) $V_B = 2000$ lb
 $V_{BH} = 2000 - 4000 = -2000$ lb
- (3) $V_C = -2000$ lb
 $V_{CH} = -2000 + 4800 = 2800$ lb
- (4) $V_D = 2800 - 400(10) = -1200$ lb

(5) Location of zero shear:

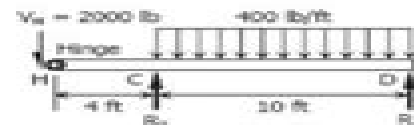
$$\begin{aligned} x / 2800 &= (10 - x) / 1200 \\ 1200x &= 28000 - 2800x \\ x &= 7 \text{ ft} \end{aligned}$$

To draw the Moment Diagram

- (1) $M_A = 0$
- (2) $M_B = 2000(4) = 8000$ lb-ft



$$\begin{aligned} \Sigma M_H = 0 & \quad \Sigma M_A = 0 \\ 8R_1 = 4000(4) & \quad 8V_H = 4000(4) \\ R_1 = 2000 \text{ lb} & \quad V_H = 2000 \text{ lb} \end{aligned}$$



$$\begin{aligned} \Sigma M_D = 0 \\ 10R_2 = 2000(14) + 400(10)(5) \\ R_2 = 4800 \text{ lb} \end{aligned}$$

$$\begin{aligned} \Sigma M_H = 0 \\ 14R_3 + 4(4800) = 400(10)(9) \\ R_3 = 1200 \text{ lb} \end{aligned}$$

$$(3) \quad M_B = 8000 - 4000(2) = 0$$

$$(4) \quad M_C = -400(2)$$

$$M_C = -800 \text{ lb-ft}$$

$$(5) \quad M_H = -800 + \frac{1}{2}(2800)(7)$$

$$M_H = 1800 \text{ lb-ft}$$

$$(6) \quad M_D = 1800 - \frac{1}{2}(1200)(3)$$

$$M_D = 0$$

$$(7) \quad \text{Zero } M \text{ is } 4 \text{ ft from } R_3$$

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Emilie Sanchez



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