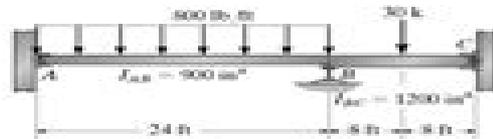


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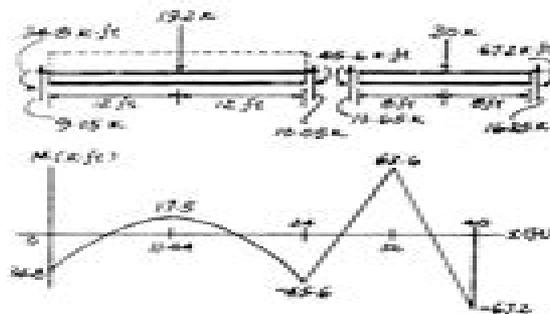
12-1. Determine the moments at *A*, *B*, and *C*, then draw the moment diagram for the beam. The moment of inertia of each span is indicated in the figure. Assume the support at *B* is a roller and *A* and *C* are fixed. $E = 29(10^3)$ ksi.



$$\begin{aligned} (DF)_{BA} &= 0 & (DF)_{BC} &= \frac{0.75M_{CB}/24}{0.75M_{CB}/24 + I_{BC}/16} = 0.3333 \\ (DF)_{BC} &= 0.6667 & (DF)_{CB} &= 0 \\ (FEM)_{BA} &= \frac{-0.8(24)^2}{12} = -38.4 \text{ k}\cdot\text{ft} \\ (FEM)_{AB} &= 38.4 \text{ k}\cdot\text{ft} \\ (FEM)_{BC} &= -\frac{30(8)}{8} = -30.0 \text{ k}\cdot\text{ft} \\ (FEM)_{CB} &= 60.0 \text{ k}\cdot\text{ft} \end{aligned}$$

Joint	A	B	C
Member	AB	BA	BC
DF	0	0.3333	0.6667
FEM	-38.4	38.4	-30.0
DM	-38.4	45.6	-45.6

$$\begin{aligned} M_{AB} &= -38.8 \text{ k}\cdot\text{ft} & \text{Ans} \\ M_{BA} &= 45.6 \text{ k}\cdot\text{ft} & \text{Ans} \\ M_{BC} &= -45.6 \text{ k}\cdot\text{ft} & \text{Ans} \\ M_{CB} &= 67.2 \text{ k}\cdot\text{ft} & \text{Ans} \end{aligned}$$



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