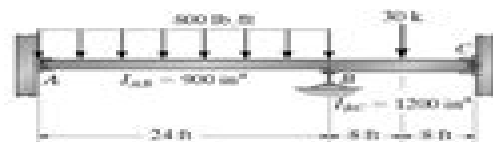


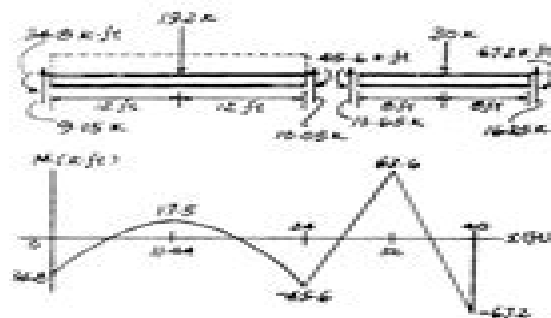
12-1. Determine the moments at A , B , and C , then draw the moment diagram for the beam. The moment of inertia of each span is indicated in the figure. Assume the support at B is a roller and A and C are fixed. $E = 29(10^3)$ ksi.



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

Joint	A		B		C	
Members	AB	BA	BC	CB		
DF	0	0.3333	0.6667	0		
FEM	-38.4	38.4	-60.0	60.0		
		7.20	34.40	7.20		
LM	-34.8	45.6	-45.6	67.2 k·ft	Ans	

$$\begin{aligned} M_{AB} &= -34.8 \text{ k} \cdot \text{ft} & \text{Ans} \\ M_{BA} &= 45.6 \text{ k} \cdot \text{ft} & \text{Ans} \\ M_{BC} &= -45.6 \text{ k} \cdot \text{ft} & \text{Ans} \\ M_{CB} &= 67.2 \text{ k} \cdot \text{ft} & \text{Ans} \end{aligned}$$



Structural And Stress Analysis Chapter 19 Solution

Lei Huang



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