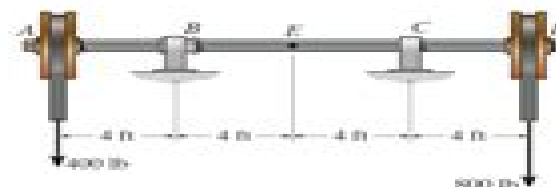


1-1.

The shaft is supported by a smooth thrust bearing at B and a journal bearing at C . Determine the resultant internal loadings acting on the cross section at E .



SOLUTION

Support Reactions: We will only need to compute C_y by writing the moment equation of equilibrium about B with reference to the free-body diagram of the entire shaft, Fig. a .

$$C_y + \sum M_B = 0; \quad C_y(8) + 400(4) - 800(12) = 0 \quad C_y = 1000 \text{ lb}$$

Internal Loadings: Using the result for C_y , section DE of the shaft will be considered. Referring to the free-body diagram, Fig. b ,

$$+\circlearrowleft \sum F_x = 0; \quad N_E = 0$$

Ans.

$$+\uparrow \sum F_y = 0; \quad V_E + 1000 - 800 = 0 \quad V_E = -200 \text{ lb}$$

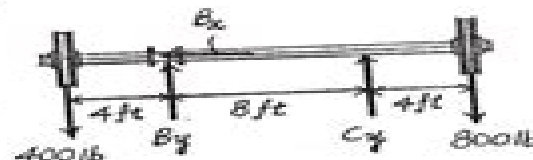
Ans.

$$C_y + \sum M_E = 0; 1000(4) - 800(8) - M_E = 0$$

$$M_E = -2400 \text{ lb} \cdot \text{ft} = -2.40 \text{ kip} \cdot \text{ft}$$

Ans.

The negative signs indicates that V_E and M_E act in the opposite sense to that shown on the free-body diagram.



(a)



(b)

Ans.

$$N_E = 0, V_E = -200 \text{ lb}, M_E = -2.40 \text{ kip} \cdot \text{ft}$$

Mechanics Of Materials Fundamental Problem Solutions

Yi-Tong Ma



Mechanics Of Materials Fundamental Problem Solutions:

Unveiling the Magic of Words: A Report on "**Mechanics Of Materials Fundamental Problem Solutions**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Mechanics Of Materials Fundamental Problem Solutions**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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