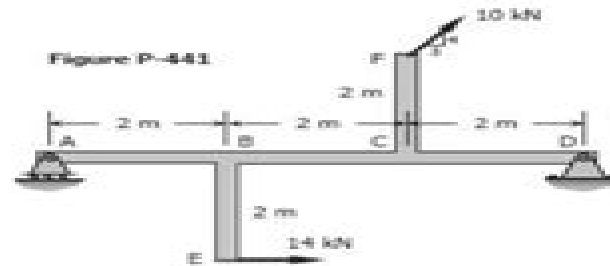
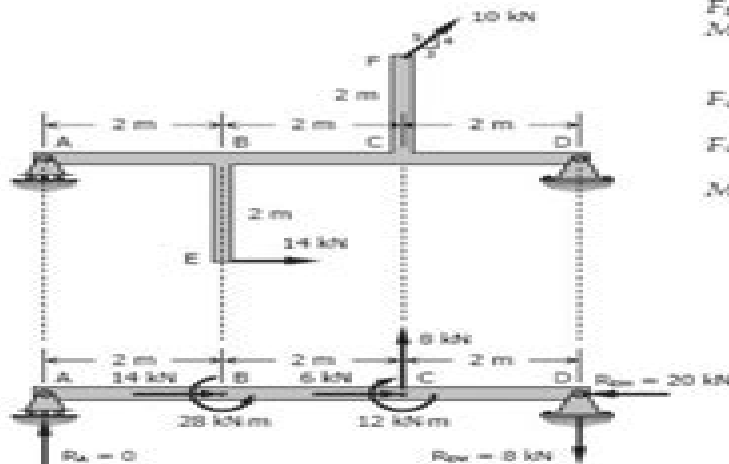


Problem 441

A beam ABCD is supported by a roller at A and a hinge at D. It is subjected to the loads shown in Fig. P-441, which act at the ends of the vertical members BE and CF. These vertical members are rigidly attached to the beam at B and C. (Draw shear and moment diagrams for the beam ABCD only.)



Solution 441



$$F_{BE} = 14 \text{ kN to the right}$$

$$M_B = 14(2)$$

$$= 28 \text{ kN-m counterclockwise}$$

$$F_{CF} = 3/5 (10)$$

$$= 6 \text{ kN to the right}$$

$$F_{CV} = 4/5 (10)$$

$$= 8 \text{ kN upward}$$

$$M_C = F_{CF}(2) = 6(2)$$

$$= 12 \text{ kN-m clockwise}$$

$$\Sigma M_D = 0$$

$$6R_A + 12 + 8(2) = 28$$

$$R_A = 0$$

$$\Sigma M_A = 0$$

$$6R_{DV} + 12 = 28 + 8(4)$$

$$R_{DV} = 8 \text{ kN}$$

$$\Sigma F_H = 0$$

$$R_{DX} = 14 + 6$$

$$= 20 \text{ kN}$$

Strength Of Materials Singer Solution Manual

Chao Zhang



Strength Of Materials Singer Solution Manual:

The Enigmatic Realm of **Strength Of Materials Singer Solution Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Strength Of Materials Singer Solution Manual** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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