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6-2. The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set  $P_1 = 600$  lb,  $P_2 = 400$  lb.



Joint A:

$$+\uparrow \sum F_y = 0; \quad F_{AD} \sin 45^\circ - 600 = 0$$

$$F_{AD} = 848.528 = 849 \text{ lb (C)} \quad \text{Ans}$$

$$\rightarrow \sum F_x = 0; \quad F_{AB} - 848.528 \cos 45^\circ = 0$$

$$F_{AB} = 600 \text{ lb (T)} \quad \text{Ans}$$



Joint B:

$$+\uparrow \sum F_y = 0; \quad F_{BD} - 400 = 0$$

$$F_{BD} = 400 \text{ lb (C)} \quad \text{Ans}$$

$$\rightarrow \sum F_x = 0; \quad F_{BC} - 400 = 0$$

$$F_{BC} = 400 \text{ lb (T)} \quad \text{Ans}$$



Joint D:

$$+\uparrow \sum F_y = 0; \quad F_{DE} \sin 45^\circ - 400 - 848.528 \sin 45^\circ = 0$$

$$F_{DE} = 1414.214 \text{ lb} = 1.41 \text{ kip (T)} \quad \text{Ans}$$

$$\rightarrow \sum F_x = 0; \quad 848.528 \cos 45^\circ + 1414.214 \cos 45^\circ - F_{DF} = 0$$

$$F_{DF} = 1600 \text{ lb} = 1.60 \text{ kip (C)} \quad \text{Ans}$$



# Engineering Mechanics Statics 12th Edition Solutions

## Chapter 6

**Jicheng Xie**



**Engineering Mechanics Statics 12th Edition Solutions Chapter 6:**

## Whispering the Techniques of Language: An Psychological Journey through **Engineering Mechanics Statics 12th Edition Solutions Chapter 6**

In a digitally-driven earth where displays reign supreme and instant conversation drowns out the subtleties of language, the profound techniques and mental subtleties hidden within words usually move unheard. Yet, located within the pages of **Engineering Mechanics Statics 12th Edition Solutions Chapter 6** a interesting literary prize sporting with fresh emotions, lies an extraordinary quest waiting to be undertaken. Published by a talented wordsmith, that charming opus invites viewers on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the material of each word. Within the emotional depths with this moving evaluation, we can embark upon a sincere exploration of the book is primary themes, dissect its fascinating publishing style, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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