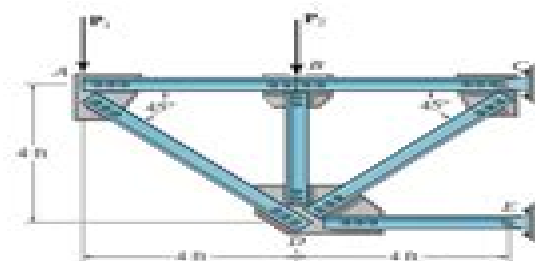


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6-2. The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set $P_1 = 600$ lb, $P_2 = 400$ lb.



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 :

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

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

$$+\rightarrow \sum F_x = 0; \quad F_{BD} - 600 = 0$$

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



Joint D :

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

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

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

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



Hibbeler Statics Chapter 6 Solutions

Michael Brown



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Mechanics for Engineers: Statics Braja M. Das, Aslam Kassimali, Sedat Sami, 2010-03-15 Example problems are well written and lead the reader to the solution. P. Guichelaar, Western Michigan University. A typeset solution manual is easier to read than a handwritten one, and the format will allow copies to be posted very easily. It will be appreciated by those who post solutions. David B. Oglesby, University of Missouri Rolla. The rigorous development process used to create *Mechanics for Engineers: Statics and Dynamics* by Das and Kassimali, sec 1.4 and 2.3 in Dynamics. A Vector Approach to Statics with a brief review of vector operations in chapters 1 and 2. Homework Problems that are graded from simple to complex and are well balanced tests of theory and practical application. More than 900 in Statics and more than 700 in Dynamics. A Short Review section and key terms at the end of each chapter to promote understanding of new concepts.

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