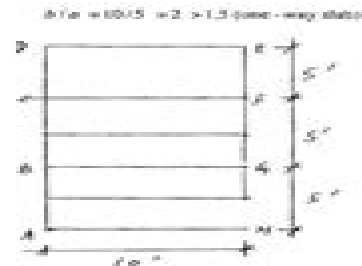
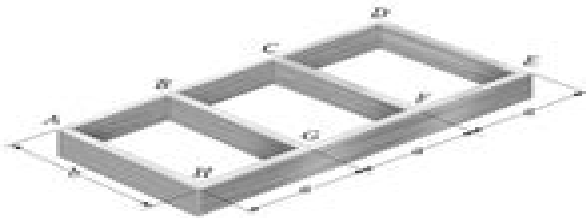


**2-1.** The frame is used to support a wood deck (not shown) that is to be subjected to a uniform load of  $130 \text{ lb/ft}^2$ . Sketch the loading that acts along members  $BG$  and  $ABCD$ . Take  $b = 10 \text{ ft}$ ,  $a = 5 \text{ ft}$ .



For  $BG$ ,  $w = 0.65 \text{ k/ft}$       Ans

For  $ABCD$ , reactions are  $4.00 \text{ k}$       Ans



**2-2.** The roof deck of the single story building is subjected to a dead plus live load of  $125 \text{ lb/ft}^2$ . If the purlins are spaced  $4 \text{ ft}$  and the bents are spaced  $25 \text{ ft}$  apart, determine the distributed loading that acts along the purlin  $DE$ , and the loadings that act on the bent at  $A$ ,  $B$ ,  $C$ ,  $D$ , and  $E$ .

$$\frac{L_2}{L_1} = \frac{25}{4} = 6.25 > 2$$

One-way slab.

Tributary load along  $DE = (125 \text{ lb/ft}^2)(4 \text{ ft}) = 500 \text{ lb/ft}$ .  
This load is also transferred to the bent from the other side of  $A-E$ . Half the tributary loading acts at  $A$  and  $E$ .

At  $A$  and  $E$ :

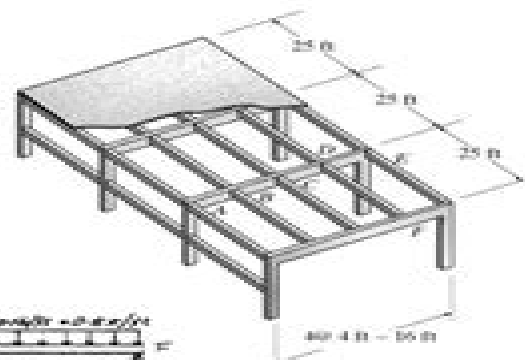
$$P' = 6250 \text{ lb} = 6.25 \text{ k}$$

Ans

At  $B$ ,  $C$ ,  $D$ :

$$P = 2(6250) = 12,500 \text{ lb} = 12.5 \text{ k}$$

Ans



# Hibbeler Structural Analysis 6th Edition Solution Manual

**Wolfgang Guggemos**



## **Hibbeler Structural Analysis 6th Edition Solution Manual:**

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to Accompany Structural Analysis Jack C. McCormac, 1984      **Structural Analysis, Second Edition, Solutions Manual**  
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