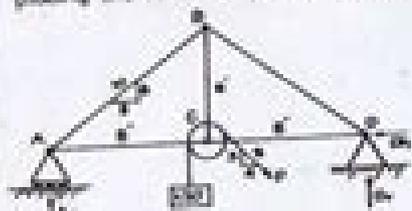


404) Determine the force in each bar of the truss shown in Fig P-404 caused by lifting the 100-lb load at constant velocity of 2 ft per sec. What change in these forces, if any, results from placing the roller support at D, the hinge support at A?



$$\sum F_x = 0$$

$$A_x = D_x = 100 \text{ lbs (100)}$$

but  $A_x = D_x$

$$\therefore 2D_x = 100 \text{ lbs (100)}$$

$$2D_x = 100$$

$$D_x = 50 \text{ lbs} = A_x$$

Interchanging hinge & roller support will not change the forces in each bar except for AC & CD

$$AC = 90 \text{ lbs (100)}$$

$$= 90 \text{ lbs (tension)}$$

$$CD = 80 \text{ lbs (100)}$$

$$= 80 \text{ lbs (tension)}$$



$$\frac{90}{4} = \frac{A_x}{4} = \frac{A_y}{4}$$

$$AC = 100 \text{ lbs (tension)}$$

$$AB = 140 \text{ lbs (compression)}$$



$$\frac{90}{4} = \frac{D_y}{4}$$

$$BD = 140 \text{ lbs (compression)}$$

$$CD = 80 \text{ lbs (100)} - D_x$$

but  $D_x = 50 \text{ lbs}$

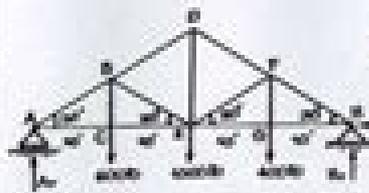
$$\therefore CD = 30 \text{ lbs (tension)}$$

at C:  $\sum F_y = 0$

$$A_x = D_x = BC$$

$$BC = 100 \text{ lbs (tension)}$$

405) Determine the force in members AB, BO, BE, & DE of the Howe roof truss shown in Fig P-405.



$$\sum M_A = 0$$

$$A_x(+4) - 1000(8) - 1000(16) - 1000(24) = 0$$

$$A_x = 1000 \text{ lbs}$$

$$\sum M_S = 0$$

$$B_x(+4) - 1000(8) - 1000(16) - 1000(24) = 0$$

$$B_x = 950 \text{ lbs}$$



$$\frac{AB}{4} = \frac{BC}{4} = \frac{A_x}{4} = \frac{1000}{4}$$

$$\therefore AB = 1000 \text{ lbs (compression)}$$

$$AC = 1000 \text{ lbs (tension)}$$



$$\sum F_y = 0$$

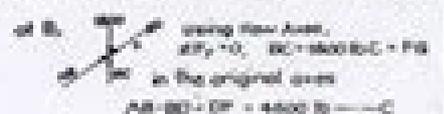
$$BE \sin 60^\circ - 1000 \cos 60^\circ = 0$$

$$BE = 2000 \text{ lbs (compression)}$$

$$BD + BE \cos 60^\circ + 1000 \cos 60^\circ = 0$$

$$BD = 1500 \text{ lbs (compression)}$$

406) Determine the force in each member of the Pratt roof truss shown in Fig P-406.



using New Axes,  $\sum F_y = 0$ ,  $BC = 1000 \text{ lbs} \rightarrow C + PB$  in the original axes

$$AB - BC - DE = 1000 \text{ lbs} \rightarrow C$$

$$\sum M_A = 0$$

$$1000(8) + 1000(16) = 1000(8) = A_x(8)$$

$$A_x = 1000 \text{ lbs}$$



$$\frac{A_x}{4} = \frac{AB}{4} = \frac{AC}{4}$$

$$\therefore AB = 1000 \text{ lbs} \rightarrow C + PB$$

$$AC = 1000 \text{ lbs} \rightarrow T$$

$$\frac{BC}{4} = \frac{CD}{4}$$

$$\therefore CD = 1000 \text{ lbs} \rightarrow T + DG$$

$$\sum F_x = 0$$

$$AC = \frac{5}{3} DG + CE$$

$$CE = 1000 - \frac{5}{3} DG + (1000 \text{ lbs})$$

$$CE = 2000 - 1000 \text{ lbs} \rightarrow T$$

$$DE = 0$$

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**Ying-Ying Zheng**



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