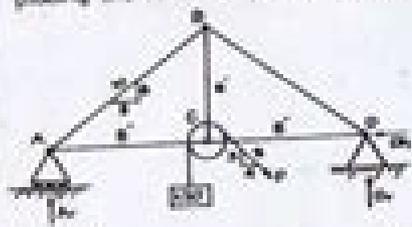


405.) Determine the force in each bar of the truss shown in Fig P-405 caused by lifting the 100-lb load at constant velocity of 2 ft per sec. What change in these forces, if any, results from placing the roller support at D, the hinge support at A?



$$\sum F_y = 0$$

$$A_v + D_v = 100 + A_h(180)$$

but $A_v = D_v$

$$\therefore 2D_v = 100 + A_h(180)$$

$$2D_v = 100$$

$$D_v = 50 \text{ lb.} = A_v$$

of A:



$$\frac{30}{4} = \frac{A_C}{5} = \frac{A_B}{13}$$

$$A_C = 150 \text{ lb (tension)}$$

$$A_B = 140 \text{ lb (compression)}$$

of D:



$$\frac{30}{4} = \frac{D_C}{5}$$

$$D_C = 140 \text{ lb (compression)}$$

$$C_D = D_C(5/4) = D_h$$

but $D_h = 30 \text{ lb}$

$$\therefore C_D = 38 \text{ lb (tension)}$$

of C: $\sum F_y = 0$

$$A_v + D_v = BC$$

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

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

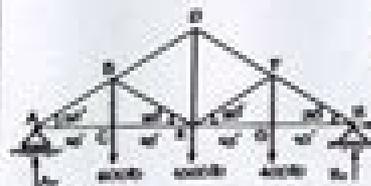
$$AC = 90 + 6A_h(180)$$

$$= 214 \text{ lb (tension)}$$

$$CD = 80(5/4)$$

$$= 100 \text{ lb (tension)}$$

406.) Determine the force in members AB, BC, BE, & DE of the Howe roof truss shown in Fig P-406.



$$\sum M_A = 0$$

$$A_v(+4) - 1000(8) - 1000(12) - 400(16) = 0$$

$$A_v = 1050 \text{ lb}$$

$$\sum M_B = 0$$

$$B_v(+4) - 1000(8) - 1000(12) - 400(16) = 0$$

$$B_v = 950 \text{ lb}$$

of A:



$$\frac{300}{4} = \frac{A_C}{5} = \frac{A_B}{13}$$

$$\therefore A_B = 8100 \text{ lb (compression)}$$

$$A_C = 1575 \text{ lb (tension)}$$

of B:



$$\sum F_y = 0$$

$$BE \sin 60^\circ - 400(\sin 60^\circ) = 0$$

$$BE = 400 \text{ lb (compression)}$$

$$BD + BE \cos 60^\circ + 400(\cos 60^\circ) = 1050$$

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

407.) Determine the force in each member of the Pratt roof truss shown in Fig P-407.



$$\sum M_A = 0$$

$$1000(8) + 1000(16) = 1000(8) = A_v(24)$$

$$A_v = 833 \text{ lb}$$

of A:



$$\frac{A_h}{2} = \frac{A_B}{5} = \frac{A_C}{2}$$

$$\therefore A_B = 4165 \text{ lb} \text{ --- } C + P$$

$$A_C = 833 \text{ lb} \text{ --- } T$$

of B:



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

$$AB - BC - DE = 4165 \text{ lb} \text{ --- } C$$

of C:



$$\frac{BC}{2} = \frac{CD}{13}$$

$$\therefore CD = 7143.33 \text{ lb} \text{ --- } T + D$$

$\sum F_y = 0$

$$AC = 5/13 CD + CE$$

$$CE = 3400 - 5/13(7143.33)$$

$$CE = 833 \text{ lb} \text{ --- } T$$

$$DE = 0$$

Ferdinand Singer Engineering Mechanics Solution

Anthony S. Fauci



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construction the break pressure tank consists of the following 1000l 3cr12 stainless steel tank basket strainer with flush valve butterfly valve for isolation diaphragm operated level control valve inlet outlet and overflow pipe work operation the diaphragm valve in the bpt opens and closes as system demand fluctuates

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break pressure tank is a structure that is located between a water reservoir and supply point with the aim of reducing the pressure in the system to zero atmospheric pressure conventional break pressure tank is constructed of concrete in rectangular shape with the depth of the tank about 1 2m

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if you need to reduce the pressure in a water network you can either use a break pressure tank or a pressure reducing valve the following video demonstrates how to model and analyse a water network with a break pressure tank this video can also be found in our training on demand site bulk water channel

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aug 17 2020 after planning and selecting the site now turn to construct the bpt mostly the bpt is constructed downstream it is generally constructed of stone masonry rcc ferro cement etc bpt is a rectangular tank structure having a base of 1000mm 1000mm and a height of 1200mm

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nov 14 2020 the water is lifted to break pressure tank by pumping main and thereafter it is conveyed to water treatment plant using gravity main the variable cost parameters of the transmission system such as cost of pipes pumps and energy are studied

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this invention relates to a break pressure tank a break pressure tank as herein envisaged is used in a downstream location with respect to a water reservoir particularly for reducing and

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dec 27 2017 this article will help to understand the basics of break pressure tank which will help you to find the list out various types of break pressure tank and its design in short it is known as bpt it is used to provided in the long pipelines its

function is

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Jan 1 2023 stress enhancement pressure test tank design is greatly important in chemical engineering energy engineering and other engineering applications detailed design has obvious influences on the safety durability and reliability of different fuel storage tanks the present work mainly focuses on the tank design in the room temperature scope

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maximum pressure pstatic 60 meters 100 meters 160 meters 160 meters 250 meters if the pressure imposed by topography is too important for the available pipes nominal pressure it is possible to build a break pressure tank which brings back the pressure in the network to the atmospheric pressure