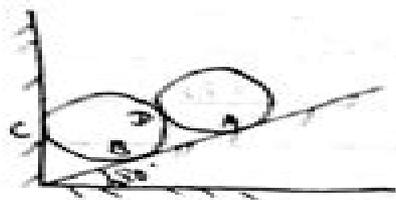




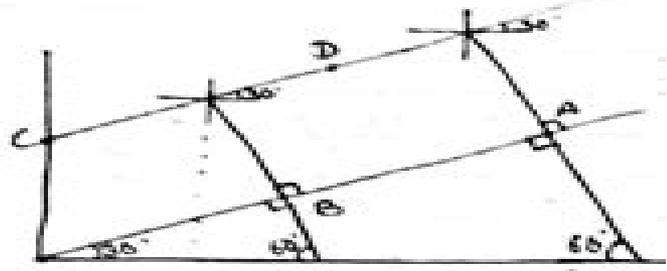
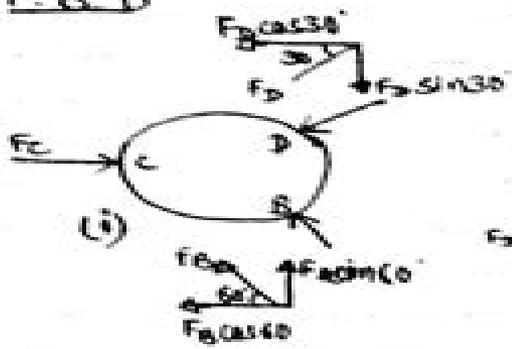
1. Soln

F.B.D



$$W_A = 1800 \text{ N}$$

$$W_B = 1000 \text{ N}$$



for body (i)

Applying equilibrium equn

$$\sum F_x = 0 \quad (\rightarrow +ve)$$

$$\text{or, } F_C - F_B \cos 60 - F_D \cos 30 = 0$$

$$\text{or, } F_C - \frac{F_B}{2} - \frac{\sqrt{3}F_D}{2} = 0 \quad \text{--- (i)}$$

$$\sum F_y = 0 \quad (\uparrow +ve)$$

$$\text{or, } F_B \sin 60 - F_D \sin 30 - 1000 = 0$$

$$\text{or, } \frac{\sqrt{3}F_B}{2} - \frac{F_D}{2} = 1000$$

$$\text{or, } \sqrt{3}F_B - F_D = 2000 \quad \text{--- (ii)}$$

for body (ii)

$$\sum F_x = 0 \quad (\rightarrow +ve)$$

$$F_D \cos 30 - F_A \cos 60 = 0$$

$$\frac{\sqrt{3}F_D}{2} - \frac{1}{2}F_A = 0$$

$$\sqrt{3}F_D = F_A \quad \text{--- (iii)}$$

$$\sum F_y = 0 \quad (\uparrow +ve)$$

$$F_D \sin 30 + F_A \sin 60 = 1800$$

$$F_D + \sqrt{3}F_A = 2000 \quad \text{--- (iv)}$$

$$\text{or, } F_D + 3F_D = 2000 \quad \text{From (iii)}$$

$$\text{or, } F_D = 500 \text{ N}$$

Questions And Solutions In Applied Mechanics

Patrick Vollmar



Questions And Solutions In Applied Mechanics:

Reviewing **Questions And Solutions In Applied Mechanics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Questions And Solutions In Applied Mechanics**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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