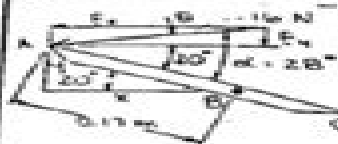


3.1



Given: $\alpha = 20^\circ$
Find: Moment of force about B (Resolve force into horizontal and vertical components)



First note that $\theta = 20^\circ - 20^\circ = 0^\circ$

$$F_x = (16 \text{ N}) \cos 0^\circ = 16.000 \text{ N}$$

$$F_y = (16 \text{ N}) \sin 0^\circ = 2.226 \text{ N}$$

$$M_B = x F_y - y F_x$$

$$= (0.17 \text{ m}) \cos 20^\circ \cdot 2.226 \text{ N} - (0.17 \text{ m}) \sin 20^\circ \cdot 16.000 \text{ N}$$

Noting that the direction of the moment of each force component about B is counterclockwise, have

$$M_B = x F_y - y F_x$$

$$= (0.159 \text{ m})(2.226 \text{ N}) - (0.058 \text{ m})(16.000 \text{ N})$$

$$= -1.277 \text{ N}\cdot\text{m}$$

OR $M_B = 1.277 \text{ N}\cdot\text{m}$

3.2



Given: $\alpha = 20^\circ$
Find: Moment of force about B (Resolve force into components parallel and perpendicular to ABC)



First resolve the 16 N force into components P and Q, where

$$P = (16 \text{ N}) \sin 20^\circ = 2.511 \text{ N}$$

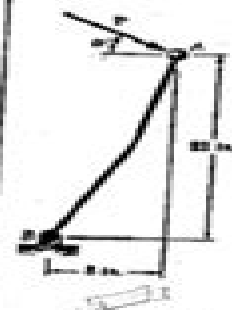
Then... $M_B = r_{AB} Q$

$$= (0.17 \text{ m})(2.511 \text{ N})$$

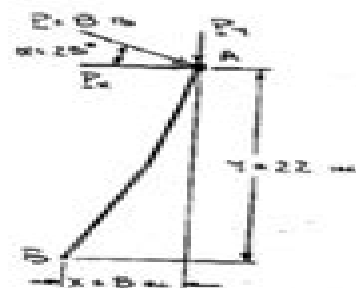
$$= 1.277 \text{ N}\cdot\text{m}$$

OR $M_B = 1.277 \text{ N}\cdot\text{m}$

3.3



Given: $D = 8 \text{ m}$, $\alpha = 25^\circ$
Find: Moment of force about B



First note...

$$F_x = (8 \text{ m}) \cos 25^\circ = 7.2505 \text{ m}$$

$$F_y = (8 \text{ m}) \sin 25^\circ = 3.3809 \text{ m}$$

Noting that the direction of the moment of each force component about B is clockwise, have

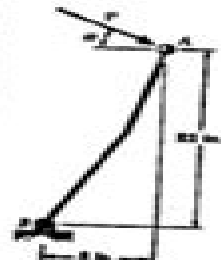
$$M_B = -x F_y - y F_x$$

$$= -(8 \text{ m})(3.3809 \text{ m}) - (22 \text{ m})(7.2505 \text{ m})$$

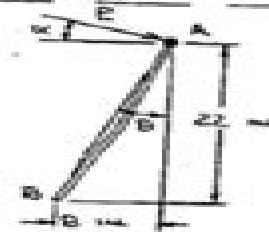
$$= -186.6 \text{ N}\cdot\text{m}$$

OR $M_B = 186.6 \text{ N}\cdot\text{m}$

3.4



Given: $M_B = 210 \text{ N}\cdot\text{m}$
Find: $(F)_{\min}$



For F to be minimum, it must be perpendicular to the line joining points A and B. Thus

$$\alpha = \theta$$

$$= \tan^{-1} \frac{8}{22}$$

$$= 19.98^\circ$$

And $M_B = d F_{\min}$

Where $d = r_{AB} = \sqrt{(8 \text{ m})^2 + (22 \text{ m})^2}$

$$= 23.409 \text{ m}$$

Then... $F_{\min} = \frac{210 \text{ N}\cdot\text{m}}{23.409 \text{ m}}$

$$= 8.97 \text{ N}$$

$$F_{\min} = 8.97 \text{ N} \angle 19.98^\circ$$

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**Ferdinand Pierre Beer, Elwood Russell
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