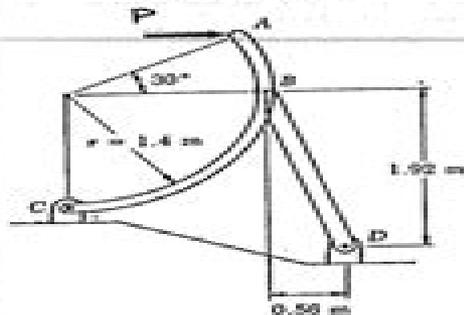


Problem 1.8



1.8 Knowing that the central portion of the link BD has a uniform cross-sectional area of 800 mm^2 , determine the magnitude of the load P for which the normal stress in that portion of BD is 50 MPa .

$$F_{BD} = \sigma A$$

$$= (50 \times 10^6)(800 \times 10^{-6})$$

$$= 40 \times 10^3 \text{ N}$$

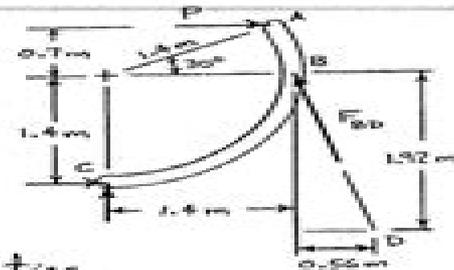
$$BD = \sqrt{(0.56)^2 + (1.92)^2}$$

$$= 2.00 \text{ m}$$

Use Free Body AC for statics.

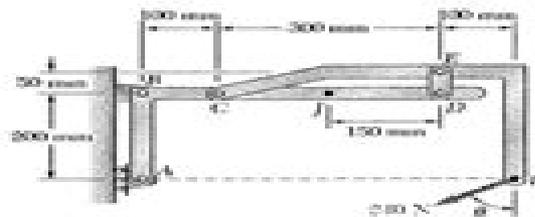
$$\sum M_C = 0: \quad \frac{0.56}{2.00} (40 \times 10^3)(1.4) + \frac{1.92}{2.00} (40 \times 10^3)(1.4) - P(0.7 + 1.4) = 0$$

$$P = 33.1 \times 10^3 \text{ N}$$



$$P = 33.1 \text{ kN} \quad \blacktriangleleft$$

Problem 1.9



1.9 Knowing that link DE is 25 mm wide and 3 mm thick, determine the normal stress in the central portion of that link when (a) $\theta = 0$, (b) $\theta = 90^\circ$.

Use member CEF as a free body

$$\sum M_C = 0$$

$$-0.3 F_{DE} - (0.2)(240 \sin \theta) - (0.4)(240 \cos \theta) = 0$$

$$F_{DE} = -160 \sin \theta - 320 \cos \theta \text{ N}$$

$$A_{DE} = (0.025)(0.003) = 75 \times 10^{-6} \text{ m}^2$$

$$\sigma_{DE} = \frac{F_{DE}}{A_{DE}}$$

$$(a) \theta = 0: \quad F_{DE} = -320 \text{ N}$$

$$\sigma_{DE} = \frac{-320}{75 \times 10^{-6}} = -4.27 \text{ MPa} \quad \blacktriangleleft$$

$$(b) \theta = 90^\circ: \quad F_{DE} = -160 \text{ N}$$

$$\sigma_{DE} = \frac{-160}{75 \times 10^{-6}} = -2.13 \text{ MPa} \quad \blacktriangleleft$$



Beer Johnston Solution

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Beer Johnston Solution :

Beer Johnston Solution Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Beer Johnston Solution** ," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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