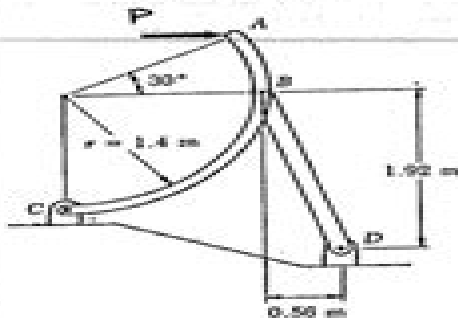


### Problem 1.8



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

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

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

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

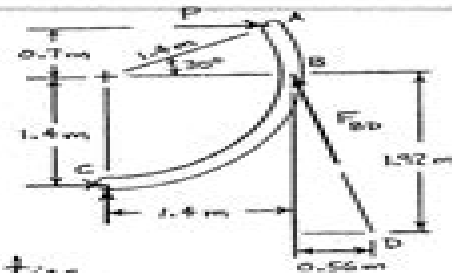
$$BD = \sqrt{(0.56)^2 + (1.92)^2}$$

$$= 2.00 \text{ m}$$

Use Free Body AC for statics.

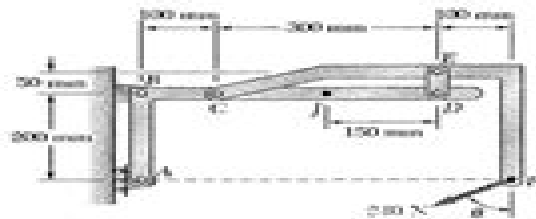
$$\circlearrowleft \sum M_C = 0: \quad \frac{0.56}{2.00} (40 \times 10^3)(1.4) + \frac{1.92}{2.00} (40 \times 10^3)(1.4) - P(0.7 + 1.4) = 0$$

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



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

### Problem 1.9



1.9 Knowing that link  $DE$  is  $25 \text{ mm}$  wide and  $3 \text{ mm}$  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

$$\circlearrowleft \sum M_C = 0$$

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

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

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

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

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

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

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

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



# Beer Johnston Solution

**Chao Zhang**



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