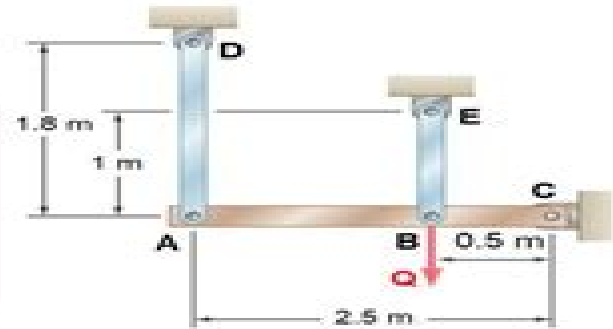


Course: MKT2142 Mechanics of Materials Gr1&2	Date/Time: 05.06.2023 / 09:00	Duration: 80 minutes
Exam Type: Final Exam	Course Instructor: Assoc.Prof. Cüneyt Yılmaz	

Question 1 [20 min, 25 Points] : A rigid bar ABC is supported by two links at its points A and B . AD and BE of uniform $30 \times 6 \text{ mm}^2$ rectangular cross-section and made of a steel material that is assumed to be elastoplastic with $E=200 \text{ GPa}$. The magnitude of the force Q applied at B is 150 kN . Assuming an elastic behaviour, determine:

- the stress in EB bar,
- the deflection of point B .

Tercümesi: Soru 1: Rijit bir ABC çubuğu A ve B noktalarından iki bağlantı ile desteklenmektedir. AD ve BE , $30 \times 6 \text{ mm}^2$ dikdörtgen kesitli ve $E=200 \text{ GPa}$ 'lık bir elastiklik modülüne sahip bir çelik malzemeden yapılmıştır. B 'ye uygulanan Q kuvvetinin büyüklüğü 150 kN 'dir. Elastik bir davranış varsayarak, şunları belirleyin:
 (i) EB barındaki gerilimi,
 (ii) B noktasının yer değişimini.



Solution 1: Statics: $\sum M_C = 0 : 0.5 (Q - P_{BE}) - 2.5 P_{AD} = 0$

$$P_{BE} + 5P_{AD} = 150 \text{ kN}$$

Deformation: $\delta_{AD} = \frac{2.5}{0.5} \delta_{BE} = 5 \delta_{BE}$

$$\delta_{AD} = \frac{P_{AD} L_{AD}}{E A} \quad , \quad \delta_{BE} = \frac{P_{BE} L_{BE}}{E A}$$

$$\frac{P_{AD} L_{AD}}{E A} = 5 \frac{P_{BE} L_{BE}}{E A} \quad \rightarrow$$

$$P_{AD} = 5 \frac{1}{1.8} P_{BE} \quad \rightarrow \quad P_{AD} = 2.778 P_{BE}$$

From Statics:

$P_{BE} + 5P_{AD} = 150 \text{ kN}$ and $P_{AD} = 2.778 P_{BE}$ give:

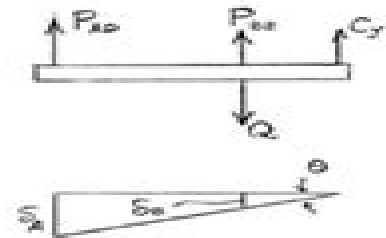
$$P_{BE} + 5 \cdot 2.778 P_{BE} = 150 \text{ kN} \quad \rightarrow \quad P_{BE} = 10.075 \text{ kN}$$

(i)

$$\sigma_{BE} = \frac{P_{BE}}{A} = \frac{10.075 \cdot 10^3}{(30 \cdot 6) \cdot 10^{-6}} = \frac{23621}{1.8 \cdot 10^{-4}} = 55.97 \cdot 10^6 \text{ Pa} = \mathbf{56 \text{ MPa}}$$

(ii)

$$\delta_{BE} = \frac{P_{BE} L_{BE}}{E A} = \frac{10075 \cdot 1}{200 \cdot 10^9 \cdot 225 \cdot 10^{-6}} = 0.00028 \text{ m} = \mathbf{0.280 \text{ mm}}$$



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