YILDIZ TECHNICAL UNIVERSITY MECHANICAL FACULTY / MECHATRONICS ENGINEERING DEPARTMENT

Course: MKT2142 Mechanics of Materials Gr1&2		
Exam Type: Final Exam	Course Instructor: Assoc.Prof. Cüneyt Yılmaz	

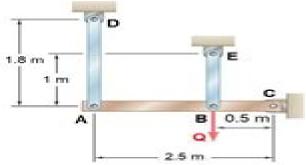
Question 1 [20 min, 25 Points]: A rigid bar ABC is supported by two links at its points A and B. AD and BE of uniform $30 \times 6 \text{ mm}^2$ rectangular cross-section and made of a steel mateiral hat is assumed to be elastoplastic with E=200 GPa. The magnitude of the force Q applied at B is 150 kN.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

- (i) the stress in EB bar,
- (ii) the deflection of point B.

Tercümesi: Soru 1: Rijit bir ABC çubuğu A ve B noktalarından iki bağlantı ile desteklenmektedir. AD ve BE, 30 x 6 mm² dikdörtgen kesitli ve E=200 GPo'lık bir elastiklik modülüne sahip bir çelik malzemeden yapılmıştır. B'ye uygulanan Q kuvvetinin büyüklüğü 250 kW dir. Elastik bir davranış varsayarak, şunları belirleyin:

(i) EB barındaki gerilimi,

(ii) B noktasının yer değisimini.



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

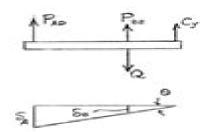
$$P_{BE} + 5P_{AD} = 150 kN$$

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

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

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

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



From Statics:

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

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

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

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

Mechanics Of Materials Fivth Answer

Wendell B. Stephens

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