

Mechanical Engineering Science past paper questions (statics and stress):

2016:

Question B1

- a) The truss shown in Figure QB1 is used to support a balcony, and is subjected to $P_1 = 60\text{kN}$ and $P_2 = 40\text{kN}$. Calculate the force in each member of the truss, stating whether the members are in tension or compression.

[12 marks]

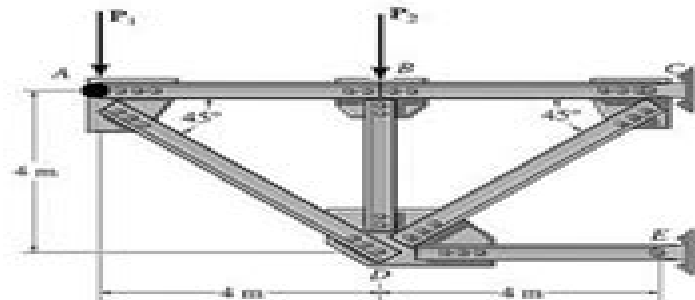


Figure QB1

- b) A boat sits on a slipway that is inclined at 20° to the horizontal. The boat is attached to a winch at the top of the slope via a cable that is parallel to the slope. If the boat weighs 2000kg , and $\mu_s = 0.3$ between the boat and the slipway, calculate what tension is required in the cable to initiate the movement of the boat up the slope. (Take gravity as 9.81 ms^{-2}).

[8 marks]

Answers:

B1a $AD = -84.85\text{kN}$ (C), $AB = 60\text{kN}$ (T), $BD = -40\text{kN}$ (C), $DC = 141.44\text{kN}$ (T), $DE = -160\text{kN}$ (C).

B1b Tension required = 12.24kN

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