

Industrial Engineering FE/EIT Exam Prep (FE/EIT Exam Preparation)

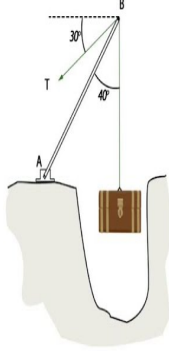
STATICS



PROBLEM:

The 1200 lb treasure chest in the figure below is being pulled from a construction excavation site using a special rig developed by the construction crew. The compressive force in the strut AB lies along the line A and B and the cables are tied at B.

Determine the magnitude of the force, F_{AB} , in the arm of the rig.



SOLUTION:

The topic of EQUILIBRIUM falls under the main category of STATICS.

Equations, Symbols, Tables, and information on the various topics covered in STATICS can be referenced on pages 63-67 of the NCEES Supplied Reference Handbook, version 9.2 for Computer Based Testing.

An object is in a state of **equilibrium** when all the forces that act upon an object are balanced, or in other words, as stated on page 63 of the NCEES Supplied Reference Handbook:

$$\sum F_x = 0$$

$$\sum M_i = 0$$

The forces are considered to be balanced if the rightward forces are balanced by the leftward forces and the upward forces are balanced by the downward forces.

This however does not necessarily mean that all the forces are equal to each other.

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