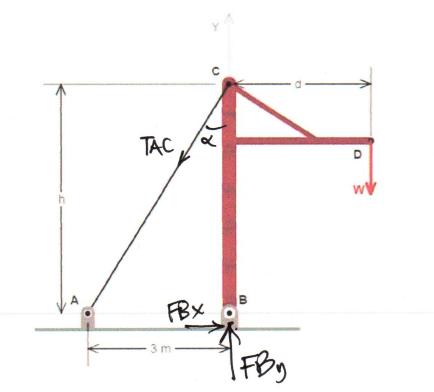


ip4STATICS Worksheet for U04_P03

A rigid frame supports weight W. At equilibrium the frame post BC is vertical and the arm D is horizontal, positioned by the cable between A and C.

Instance variables: force W in kN; lengths h and d in m.



Geometry. tan x = 3/hso x = tan'(3/h)

- (1) What is the tension TAC in the cable at equilibrium?
- (2) What is the reaction force FB at B? (Enter 'FBx,FBy')
- (3) What is the reaction force FB at B? (Enter 'mag,deg')