

Homework Problem H32.A

Given: A frame is made up of members AD and DE that are joined with a pin joint at D, and with AD being pinned to ground at B with a double-shear pin joint. A pair of forces, F and P, act on member AD at A and C, respectively. The pin at B has a diameter of d .

Find: Determine the shear stress in the pin at B.

For this problem, use the following parameters: $b = 0.5$ m, $h = 0.5$ m, $d = 10$ mm, $F = 10$ kN and $P = 30$ kN.

