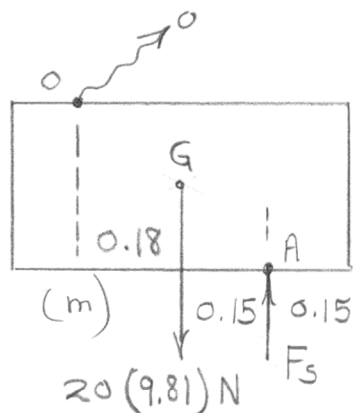


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$$\uparrow \sum M_o = 0 : -20(9.81)(0.18) + F_s(0.18 + 0.15) = 0$$

$$F_s = 107.0 \text{ N}$$

$$F_s = k\delta : 107.0 = 2000\delta, \delta = 0.0535 \text{ m}$$

$$\text{or } \delta = 53.5 \text{ mm}$$

$$L = 0.1 + \delta = 0.1 + 0.0535 = 0.1535 \text{ m}$$

$$\text{or } \underline{153.5 \text{ mm}}$$

WILEY