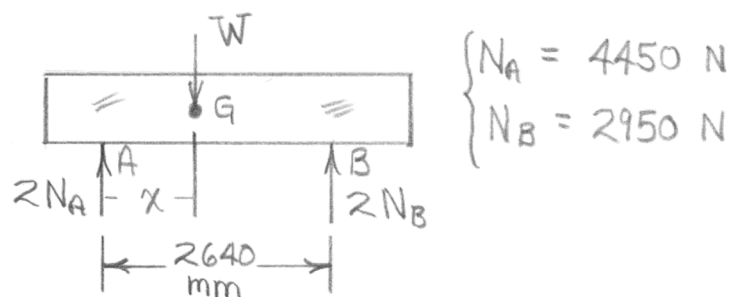


3/21 Car modeled as a slab and viewed from the driver's (left) side :



$$\uparrow \Sigma F = 0 : 2(4450) + 2(2950) - W = 0$$

$$W = 14800 \text{ N}$$

$$m = \frac{W}{g} = \frac{14800}{9.81} = \underline{1509 \text{ kg}}$$

$$\curvearrowright \Sigma M_A = 0 : -14800x + 2(2950)(2640) = 0$$

$$\underline{x = 1052 \text{ mm}}$$

WILEY