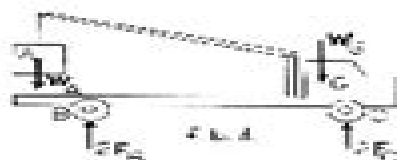


PROBLEM 4.1

The boom on a 4300-kg truck is used to unload a pallet of shingles of mass 1600 kg. Determine the reaction at each of the two (a) rear wheels B, (b) front wheels C.

SOLUTION



$$W_A = m_A g = (1600 \text{ kg})(9.81 \text{ m/s}^2) \\ = 15696 \text{ N}$$

or

$$W_A = 15.696 \text{ kN}$$

$$W_G = m_G g = (4300 \text{ kg})(9.81 \text{ m/s}^2) \\ = 42183 \text{ N}$$

or

$$W_G = 42.183 \text{ kN}$$

(a) From f.b.d. of truck with boom

$$\begin{aligned} \rightarrow \Sigma M_C = 0: & (15.696 \text{ kN})[(0.5 + 0.4 + 6 \cos 15^\circ) \text{ m}] - 2F_B[(0.5 + 0.4 + 4.3) \text{ m}] \\ & + (42.183 \text{ kN})(0.5 \text{ m}) = 0 \end{aligned}$$

$$\therefore 2F_B = \frac{126.185}{5.2} = 24.266 \text{ kN}$$

$$\text{or } F_B = 12.13 \text{ kN} \quad \nwarrow$$

(b) From f.b.d. of truck with boom

$$\begin{aligned} \rightarrow \Sigma M_B = 0: & (15.696 \text{ kN})[(6 \cos 15^\circ - 4.3) \text{ m}] - (42.183 \text{ kN})[(4.3 + 0.4) \text{ m}] \\ & + 2F_C[(4.3 + 0.9) \text{ m}] = 0 \end{aligned}$$

$$\therefore 2F_C = \frac{174.786}{3.2} = 54.613 \text{ kN}$$

$$\text{or } F_C = 27.31 \text{ kN} \quad \nwarrow$$

Check:

$$\rightarrow \Sigma F_y = 0: (33.613 - 42.183 + 24.266 - 15.696) \text{ kN} = 0?$$

$$(37.879 - 57.879) \text{ kN} = 0 \text{ ok}$$

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Siddappa N.Byrareddy



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