

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 **Z**_i (b) front wheels C.

SOLUTION

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

= 13696 M

$$W_{cl} = m_{cl}g = (4300 \text{ kg})(9.81 \text{ m/s}^2)$$

= 42.183 N
= 42.183 N/

-

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

$$-) EM_C = 0: (15.696 \text{ kN}) [(0.5 + 0.4 + 6 \text{ cm}15^\circ) \text{m}] - 2F_o [(0.5 + 0.4 + 4.3) \text{m}]$$

$$+ (42.183 \text{ kN})(0.5 \text{ m}) = 0$$

$$\therefore 2F_o = \frac{126.185}{52} = 24.266 \text{ kN}$$

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

-)
$$EM_S = 0$$
: $(15.696 \text{ kN})[(6 \cos 1.5^{\circ} - 4.3) \text{ m}] - (42.183 \text{ kN})[(4.3 + 0.4) \text{ m}]$
 $+ 2F_C[(4.3 + 0.9) \text{ m}] = 0$
 $\therefore 2F_C = \frac{174.786}{5.2} = 33.613 \text{ kN}$

Check: $+^{\circ} \Sigma F_{y} = 0$: (33.513 - 42.183 + 24.266 - 15.696) kN = 0? (57.879 - 57.879) kN = 0 ok

Statics Chapter 4 Solutions Manual

Christian Drosten

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