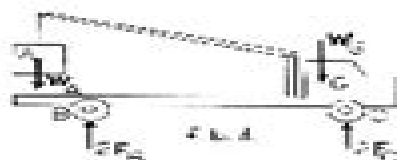


### PROBLEM 4.1

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:

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

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

# Statics Chapter 4 Solutions Manual

**B Lingard**



## **Statics Chapter 4 Solutions Manual:**

## The Enigmatic Realm of **Statics Chapter 4 Solutions Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Statics Chapter 4 Solutions Manual** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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