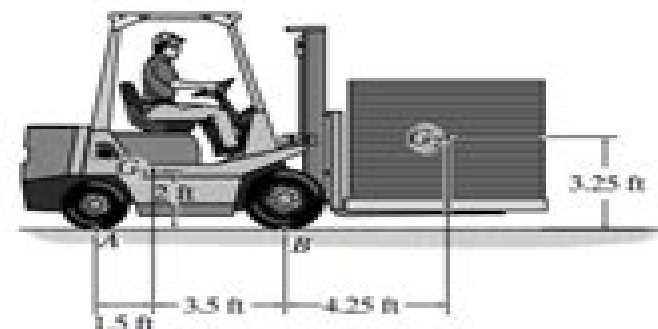


•17–37. If the forklift's rear wheels supply a combined traction force of  $F_A = 300$  lb, determine its acceleration and the normal reactions on the pairs of rear wheels and front wheels. The forklift has a weight of 2000 lb, with center of gravity at  $G_1$ , and the load weighs 900 lb, with center of gravity at  $G_2$ . The front wheels are free to roll. Neglect the weight of the wheels.



**Equations of Motion:** The acceleration of the forklift can be obtained directly by writing the force equation of motion along the  $x$  axis.

$$\rightarrow \Sigma F_x = m(a_G)_x; \quad 300 = \frac{2000}{32.2}a + \frac{900}{32.2}a$$

$$a = 3.331 \text{ ft/s}^2$$

**Ans.**

Using this result and writing the moment equation of motion about point  $A$ ,

$$\zeta + \Sigma M_A = (M_k)_A; \quad N_B(5) - 2000(1.5) - 900(9.25) = -\left(\frac{2000}{32.2}\right)(3.331)(2) - \left(\frac{900}{32.2}\right)(3.331)(3.25)$$

$$N_B = 2121.72 \text{ lb} = 2122 \text{ lb}$$

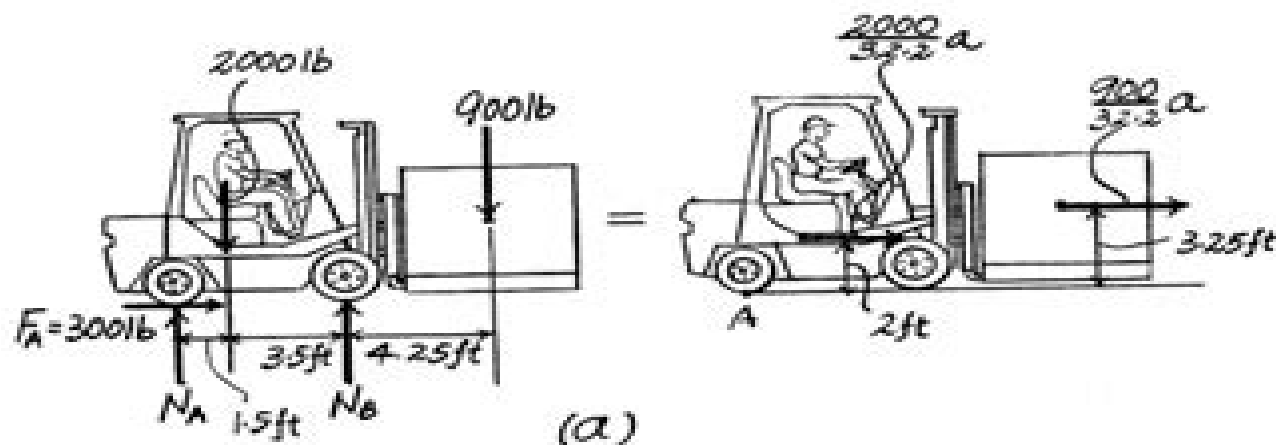
**Ans.**

Finally, writing the force equation of motion along the  $y$  axis and using this result,

$$+\uparrow \Sigma F_y = m(a_G)_y; \quad N_A + 2121.72 - 2000 - 900 = 0$$

$$N_A = 778.28 \text{ lb} = 778 \text{ lb}$$

**Ans.**



# Pollack And Stump Solutions Manual

**Lingjun Ying**



## **Pollack And Stump Solutions Manual:**

## Unveiling the Magic of Words: A Report on "**Pollack And Stump Solutions Manual**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Pollack And Stump Solutions Manual**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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