

# Example 7 – Diving Board

- Diver 58 kg, no board weight
- Positions 0m, 1m, 3m
- Free body diagram

- $\sum F_x = 0$

No forces in x

- $\sum F_y = 0$

$$F_A + F_B - (58 \text{ kg}) \left( 9.8 \frac{\text{m}}{\text{s}^2} \right) = 0$$

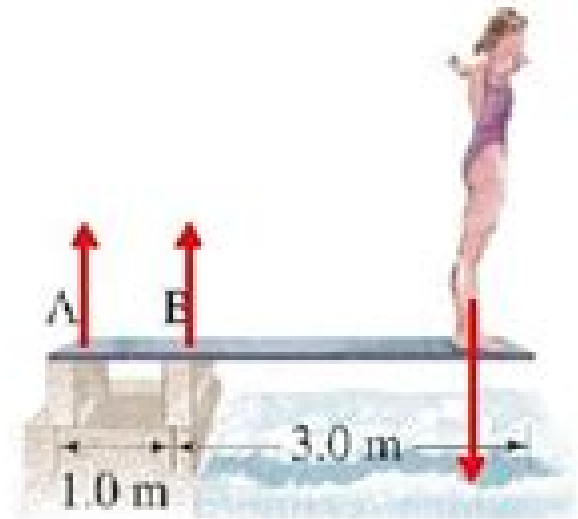
$$F_A + F_B = 568.4 \text{ N}$$

- $\sum \tau_B = 0$

$$-(F_A)(1\text{m}) + (F_B)(0\text{m}) - (568.4\text{N})(3\text{m}) = 0 \quad (\text{all angles } 90^\circ)$$

$$F_A = -1705 \text{ N} \quad (\text{OK, we just assumed wrong direction})$$

$$F_B = 2273 \text{ N}$$



# Mastering Physics Answers Static Equilibrium

**Michael Brown**



## **Mastering Physics Answers Static Equilibrium:**

## **Mastering Physics Answers Static Equilibrium** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Mastering Physics Answers Static Equilibrium**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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