

# ENGINEERING MECHANICS

## STUDY NOTES

The image contains several hand-drawn diagrams and calculations:

- Top Left:** A crane arm diagram with a weight of 4000 N and a horizontal distance of 30 m. A reaction force of 15000 N is shown at the base.
- Top Center:** A truss structure with a horizontal span of 30 m and a height of 10 m. It is supported by a pin at A and a roller at B. A horizontal force of 4500 N is applied at the right end. A calculation for the reaction at A is shown:  $M_A = 2 \times F = 9000$ .
- Top Right:** A pulley system with three pulleys (A, B, C) and a weight of 100 kg. A force of 100 kg is applied at the top, and a reaction force of 100 kg is shown at the bottom.
- Middle Left:** A beam of length 10 m with a uniformly distributed load of 1500 N/m. It is supported by a pin at A and a roller at B. Calculations for the reaction forces are shown:  $\sum F_x = A_x = 0$ ,  $\sum F_y = A_y + C_y = 0$ , and  $\sum M_A = A_y \times 10 = 15000 = C_y(10)$ .
- Middle Center:** A truss structure with a horizontal span of 10 m and a height of 10 m. It is supported by a pin at A and a roller at B. A horizontal force of 1000 N is applied at the right end. A calculation for the reaction at A is shown:  $M_A = 2 \times F = 2000$ .
- Middle Right:** A beam of length 10 m with a uniformly distributed load of 1500 N/m. It is supported by a pin at A and a roller at B. A calculation for the reaction forces is shown:  $\sum F_x = A_x = 0$ ,  $\sum F_y = A_y + C_y = 0$ , and  $\sum M_A = A_y \times 10 = 15000 = C_y(10)$ .
- Bottom Left:** A diagram showing two people pulling on a box. The weight of the box is 100 kg. A calculation for the weight is shown:  $w = 100 \times 9.81 = 981 \text{ N}$ .
- Bottom Center:** A beam of length 10 m with a uniformly distributed load of 1500 N/m. It is supported by a pin at A and a roller at B. A calculation for the reaction forces is shown:  $\sum F_x = A_x = 0$ ,  $\sum F_y = A_y + C_y = 0$ , and  $\sum M_A = A_y \times 10 = 15000 = C_y(10)$ .
- Bottom Right:** A diagram showing a person standing on a platform. The weight of the person is 100 kg. A calculation for the weight is shown:  $w = 100 \times 9.81 = 981 \text{ N}$ .

# Basic Concepts Of Engineering Mechanics

**Chao Zhang**



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