

# ENGINEERING MECHANICS

## STUDY NOTES

The image contains several hand-drawn diagrams and calculations related to engineering mechanics:

- Top Left:** A diagram of a crane arm with a weight of 4000 N. A cable is attached to the end of the arm, and a reaction force is shown at the pivot point.
- Top Center:** A large truss structure with a horizontal span of 60 units. It is supported by a pin support at point A and a roller support at point B. A horizontal force of 4500 N is applied at point B. A calculation above the truss shows:  $M_A = \vec{r} \times \vec{F} = \begin{bmatrix} 3 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} -4500 - 18000 \\ 18000 - 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 18000 \\ 0 \end{bmatrix} = 3000 \text{ kNm}$ .
- Top Right:** A diagram of a pulley system with three pulleys (A, B, C) and a weight of 1000 N. A force of 1000 N is applied to the rope. A calculation shows  $M_A = 2 \cdot F$ .
- Middle Left:** A diagram of a beam with a pin support at A and a roller support at B. A force of 15000 N is applied at an angle to the beam. Calculations below show:  $\sum F_x = A_x = 0$ ,  $\sum F_y = A_y + C_y = 0$ , and  $\sum M_A = A_y \cdot l = 15000 \cdot l = C_y \cdot (2l)$ .
- Middle Center:** A diagram of a truss structure with a horizontal span of 60 units. It is supported by a pin support at A and a roller support at B. A horizontal force of 4500 N is applied at point B. A calculation shows  $M_A = 2 \cdot F$ .
- Middle Right:** A diagram of a beam with a pin support at A and a roller support at B. A force of 4000 N is applied at an angle to the beam. A calculation shows  $M_A = 2 \cdot F$ .
- Bottom Left:** A diagram of two people pulling on a box M. A force of 100 N is applied to the box. A calculation shows  $\omega = (0)(9.81) = 98.1 \text{ N}$ .
- Bottom Center:** A diagram of a beam with a pin support at A and a roller support at B. A force of 4000 N is applied at an angle to the beam. A calculation shows  $M_A = 2 \cdot F$ .
- Bottom Right:** A diagram of a beam with a pin support at A and a roller support at B. A force of 4000 N is applied at an angle to the beam. A calculation shows  $M_A = 2 \cdot F$ .

# Electrical And Electronics Engineering Notes For Mechanical Engineering

**J Ma**



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