

ENGINEERING MECHANICS

STUDY NOTES

The image contains several distinct 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 R_A is shown at the pivot.
- Top Center:** A large 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 force of 4500 N is applied at the right end.
- Top Right:** A pulley system with three pulleys (A, B, C) and a weight of 100 kg. A force of 100 kg is applied to the rope.
- 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 show $\sum F_x = A_x = 0$, $\sum F_y = A_y + B_y = 0$, and $\sum M_A = A_y \cdot 10 = 15000 = B_y \cdot 10$.
- Middle Center:** A truss section with a horizontal span of 10 m and a height of 10 m. A force of 15000 N is applied at the top right joint.
- Middle Right:** A beam of length 10 m with a force of 15000 N applied at the end. It is supported by a pin at A and a roller at B.
- Bottom Left:** A diagram showing two people pulling a block M. Forces F_1 and F_2 are applied at an angle. Calculations show $F_{2x} = F_2 \cos 30$ and $\omega = (0)(9.81) = 98.1 \text{ N}$.
- Bottom Center:** A beam of length 10 m with a force of 15000 N applied at the end. It is supported by a pin at A and a roller at B.
- Bottom Right:** A 3D diagram of a rectangular block with dimensions 10 m by 10 m by 10 m. A force of 15000 N is applied at the top right corner. Calculations show $\sum M_x = 15000 \cdot 10 = 150000$, $\sum M_y = 15000 \cdot 10 = 150000$, and $\sum M_z = 15000 \cdot 10 = 150000$.

Basic Concepts Of Engineering Mechanics

David A Cicci



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