

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 truss structure with a horizontal force of 4500 N applied at the right end. A reaction force R_A is shown at the left support. A calculation for the reaction force is shown: $R_A = \frac{4500 \times 30}{30} = 4500$.
- Top Right:** A pulley system with three pulleys (A, B, C) and a weight of 1000 N. A reaction force R_A is shown at the top support.
- Middle Left:** A beam of length 10 m with a uniformly distributed load of 1500 N/m. A reaction force R_A is shown at the left support. Calculations for the reaction force are shown: $\sum F_y = R_A - 1500 \times 10 = 0 \Rightarrow R_A = 15000$.
- Middle Center:** A truss structure with a horizontal force of 4500 N applied at the right end. A reaction force R_A is shown at the left support. A calculation for the reaction force is shown: $R_A = \frac{4500 \times 30}{30} = 4500$.
- Middle Right:** A beam of length 10 m with a uniformly distributed load of 1500 N/m. A reaction force R_A is shown at the left support. A calculation for the reaction force is shown: $\sum F_y = R_A - 1500 \times 10 = 0 \Rightarrow R_A = 15000$.
- Bottom Left:** A diagram showing two people pulling a block of mass M with forces F_1 and F_2 . A weight $W = 100$ N is shown acting downwards. A calculation for the weight is shown: $W = 10 \times 10 = 100$.
- Bottom Center:** A diagram showing a block of mass M with a weight $W = 100$ N acting downwards. A calculation for the weight is shown: $W = 10 \times 10 = 100$.
- Bottom Right:** A diagram showing a block of mass M with a weight $W = 100$ N acting downwards. A calculation for the weight is shown: $W = 10 \times 10 = 100$.

Basic Concepts Of Engineering Mechanics

M Walker



Basic Concepts Of Engineering Mechanics:

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