

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: $M_A = \vec{r} \times \vec{F} = \begin{bmatrix} 3 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 4500 \end{bmatrix} = \begin{bmatrix} -13500 - 13500 \\ 13500 - 13500 \\ 0 \end{bmatrix} = \begin{bmatrix} -27000 \\ 0 \\ 0 \end{bmatrix} = 27000 \hat{i} \text{ Nm}$.
- 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 pulley A. 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 reactions are shown: $\sum F_x = A_x = 0$, $\sum F_y = A_y + B_y = 0$, and $\sum M_A = B_y \cdot 10 = 15000 = C_y(10)$.
- 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: $M_A = \vec{r} \times \vec{F} = \begin{bmatrix} 10 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 1000 \end{bmatrix} = \begin{bmatrix} -10000 - 10000 \\ 10000 - 10000 \\ 0 \end{bmatrix} = \begin{bmatrix} -20000 \\ 0 \\ 0 \end{bmatrix} = 20000 \hat{i} \text{ Nm}$.
- 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 at A is shown: $M_A = \vec{r} \times \vec{F} = \begin{bmatrix} 10 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 15000 \end{bmatrix} = \begin{bmatrix} -150000 - 150000 \\ 150000 - 150000 \\ 0 \end{bmatrix} = \begin{bmatrix} -300000 \\ 0 \\ 0 \end{bmatrix} = 300000 \hat{i} \text{ Nm}$.
- Bottom Left:** A diagram showing two people pulling on a box M. A force of 100 N is applied to the box. A calculation for the reaction at A is shown: $M_A = \vec{r} \times \vec{F} = \begin{bmatrix} 10 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 100 \end{bmatrix} = \begin{bmatrix} -1000 - 1000 \\ 1000 - 1000 \\ 0 \end{bmatrix} = \begin{bmatrix} -2000 \\ 0 \\ 0 \end{bmatrix} = 2000 \hat{i} \text{ Nm}$.
- Bottom Center:** A diagram showing 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 at A is shown: $M_A = \vec{r} \times \vec{F} = \begin{bmatrix} 10 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 15000 \end{bmatrix} = \begin{bmatrix} -150000 - 150000 \\ 150000 - 150000 \\ 0 \end{bmatrix} = \begin{bmatrix} -300000 \\ 0 \\ 0 \end{bmatrix} = 300000 \hat{i} \text{ Nm}$.
- Bottom Right:** A diagram showing 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 at A is shown: $M_A = \vec{r} \times \vec{F} = \begin{bmatrix} 10 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 15000 \end{bmatrix} = \begin{bmatrix} -150000 - 150000 \\ 150000 - 150000 \\ 0 \end{bmatrix} = \begin{bmatrix} -300000 \\ 0 \\ 0 \end{bmatrix} = 300000 \hat{i} \text{ Nm}$.

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