

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 R_A is shown at the pivot.
- 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 force is shown: $R_A = \vec{r} \times \vec{F} = \begin{bmatrix} 3 \\ 0 \\ 0 \end{bmatrix} \times \begin{bmatrix} 0 \\ 0 \\ 4500 \end{bmatrix} = \begin{bmatrix} -13500 - 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} -13500 \\ 0 \\ 0 \end{bmatrix} = 30k \cdot R_A$
- Top Right:** A pulley system with three pulleys (A, B, C) and a weight of 100 kg. A force of 100 N 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. Equilibrium equations are listed: $\sum F_x = A_x = 0$, $\sum F_y = A_y + C_y = 0$, and $\sum M_A = A_y \cdot 10 = 15000 = C_y(10)$.
- 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 2000 N is applied at the top right joint.
- Middle Right:** A beam of length 10 m with a horizontal force of 3000 N applied at the right end. A reaction force R_A is shown at the left end.
- Bottom Left:** A diagram showing two people pulling on a box M. A weight of 100 kg is shown. A calculation for the weight is given: $w = (10)(9.81) = 981 \text{ N}$.
- Bottom Center:** A beam of length 10 m with a horizontal force of 2000 N applied at the right end. A reaction force R_A is shown at the left end.
- Bottom Right:** A 3D diagram of a rectangular prism with dimensions 10 m by 10 m by 10 m. A force of 2000 N is applied at the top right corner. A calculation for the reaction force is shown: $R_A = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} + \begin{bmatrix} 2000 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 2000 \\ 0 \\ 0 \end{bmatrix}$.

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LL Leslie



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