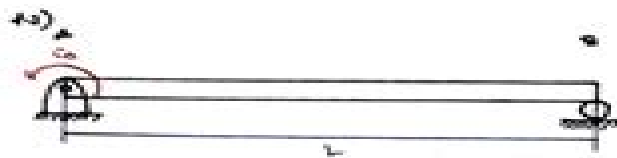


CHAPTER 4: SHEAR & MOMENT IN BEAMS

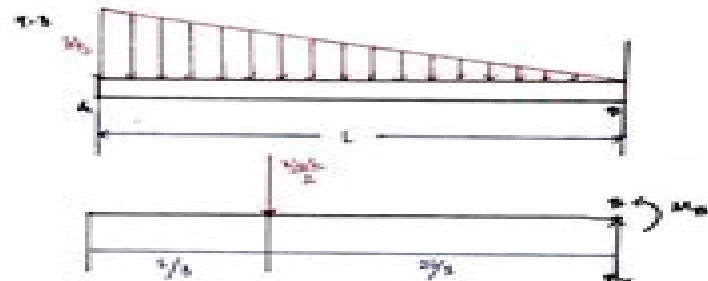
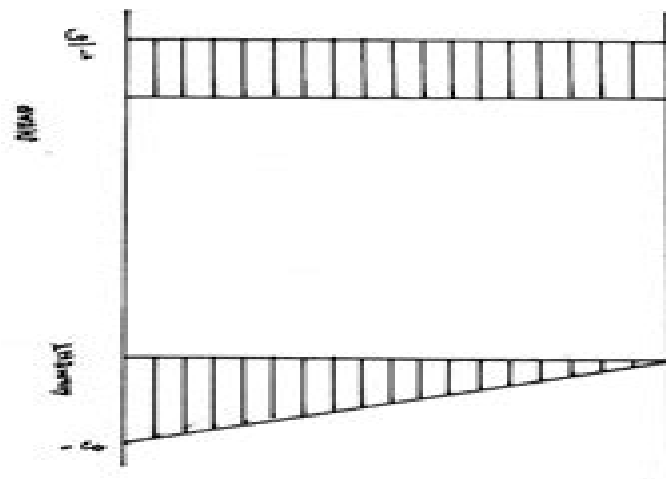


$$\Rightarrow \text{for } 0 \leq x \leq L$$



$$\sum F_y = \frac{C_0}{L} - V ; \quad V = \frac{C_0}{L}$$

$$\Rightarrow \sum M_o = -M - C_0 + \frac{C_0}{L} x ; \quad M = \frac{C_0}{L} x - C_0$$



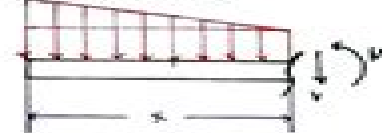
$$\sum F_y = R_y - \frac{w_0 L}{2}$$

$$R_y = \frac{w_0 L}{2}$$

$$\sum M_o = \frac{w_0 L}{2} \left(\frac{x}{2} \right)$$

$$\sum M_o = \frac{w_0 L^2}{2}$$

$$\Rightarrow \text{for } 0 \leq x \leq L$$



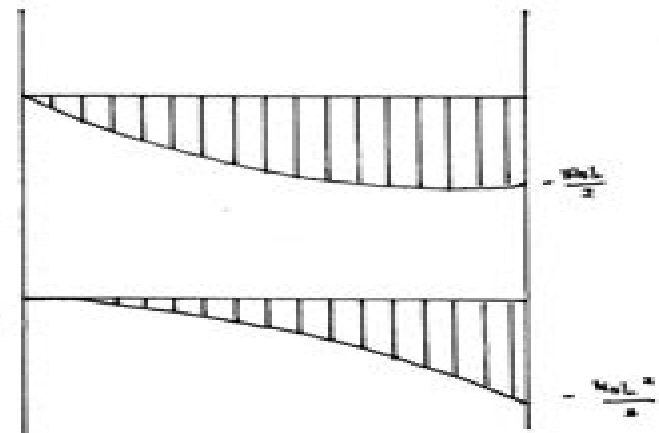
$$\frac{w_0}{x} = \frac{w_0}{L}$$

$$w = \frac{w_0 x}{L}$$

$$\sum F_y = \left(\frac{w_0 x}{2} \right) - w_0 x - V ; \quad V = \frac{w_0 x^2}{2L} - w_0 x$$

$$\Rightarrow \sum M_o = -M + \left(\frac{w_0 x^2}{2L} \right) \left(\frac{x}{2} \right) - w_0 x \left(\frac{x}{2} \right)$$

$$M = \frac{w_0 x^3}{6L} - \frac{w_0 x^2}{2}$$



Engineering Mechanics Problems And Solutions Beams

Xiaolong Qi



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