

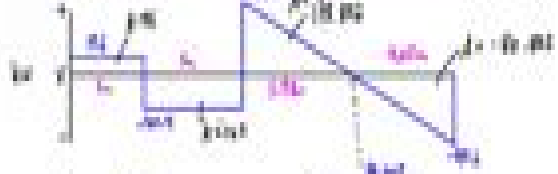
$$R_A = \frac{w}{2} (2l - x) = w(l - \frac{x}{2}) \rightarrow R_A = w(l - \frac{x}{2})$$

$$R_B = \frac{w}{2} (x^2 - 2lx + l^2) = \frac{w}{2} (x^2 - 2lx + l^2) = \frac{wx}{2} (x - 2l + \frac{l^2}{x})$$

$$R_B = \frac{w}{2} (x^2 - 2lx + l^2) = \frac{w}{2} (x^2 - 2lx + l^2) = \frac{wx}{2} (x - 2l + \frac{l^2}{x})$$

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First derived the theorem

$$\theta_B = \int \frac{1}{EI} dx$$

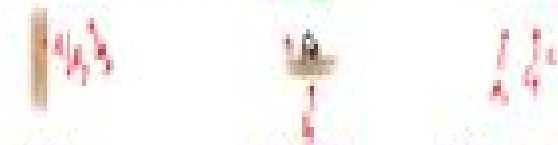
slope of beam at B = area of theta diagram between A and B

theta at B

Second derived the theorem

$$\delta_B = \int \theta dx$$

$$\delta_B = \int \theta dx$$



$$R_{A1} = \frac{wl}{2}, R_{A2} = \frac{wl}{2}, R_{B1} = \frac{wl}{2}, R_{B2} = \frac{wl}{2}$$



Civil Engineering Structural Analysis 2 Important Question

Mike Jess



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