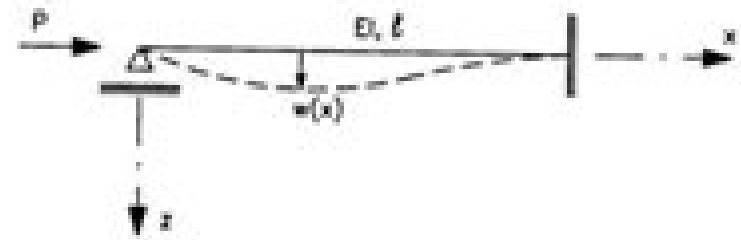


Galerkin method - Example



- Clamped simply supported column
- Form function
- Residual
- Galerkin equation
- Critical Load

$$\bar{w}(x) = q_1 \psi_1(x) = q_1 \left(x - \frac{3x^3}{l^2} + \frac{2x^4}{l^3} \right)$$

$$L(\bar{w}, P) = EI w_{,xxxx} + P w_{,xx} = 0$$

$$r(x, P) = L(\bar{w}, P) = q_1 \left[\frac{48EI}{l^3} - P \left(\frac{18x}{l^2} - \frac{24x^2}{l^3} \right) \right]$$

$$\int_0^l r(x, P) \psi_1(x) dx = q_1 \left[\frac{3EI}{5l} - P \frac{l}{35} \right] = 0$$

$$P = 21 \frac{EI}{l^2} \approx 1.04 P_{cr}$$

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ω represents the frequency of a sine wave when we write it this way $\sin \omega t$ if $\omega = 1$ the sin completes one cycle in 2π seconds if $\omega = 2\pi$ the sin completes one cycle sooner every 1 second for $f = 1$ if $\omega = 2\pi f$ the sin completes one cycle even faster every $1/f$ seconds or equivalently sin completes f cycles in 1 second

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