

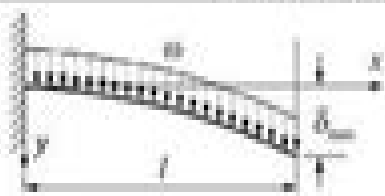

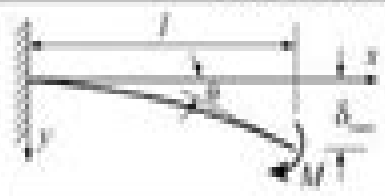


## BEAM DEFLECTION FORMULAE

| BEAM TYPE  | SLOPE AT FREE END               | DEFLECTION AT ANY SECTION IN TERMS OF $x$  | MAXIMUM DEFLECTION                      |
|--|---------------------------------|--|---|
| 1. Cantilever Beam - Concentrated load $P$ at the free end                         |                                 |  |   |
|    | $\theta = \frac{Pl^2}{2EI}$     | $y = \frac{Px^2}{6EI}(3l-x)$   | $\delta_{max} = \frac{Pl^3}{3EI}$       |
| 2. Cantilever Beam - Concentrated load $P$ at any point                            |                                 |  |   |
|    | $\theta = \frac{Pa^3}{2EI}$     | $y = \frac{Px^2}{6EI}(3a-x) \text{ for } 0 < x < a$<br>$y = \frac{Pa^3}{6EI}(3x-a) \text{ for } a < x < l$ | $\delta_{max} = \frac{Pa^3}{6EI}(3l-a)$ |
| 3. Cantilever Beam - Uniformly distributed load $w$ (N/m)                          |                                 |  |   |
|    | $\theta = \frac{wl^3}{6EI}$     | $y = \frac{wx^2}{24EI}(x^2 + 6l^2 - 4lx)$  | $\delta_{max} = \frac{wl^4}{8EI}$       |
| 4. Cantilever Beam - Uniformly varying load. Maximum intensity $w_0$ (N/m)         |                                 |  |   |
|   | $\theta = \frac{w_0 l^3}{24EI}$ | $y = \frac{w_0 x^2}{120EI}(10l^3 - 10l^2x + 5lx^2 - x^3)$  | $\delta_{max} = \frac{w_0 l^4}{30EI}$   |
| 5. Cantilever Beam - Couple moment $M$ at the free end                             |                                 |  |   |
|  | $\theta = \frac{Ml}{EI}$        | $y = \frac{Mx^2}{2EI}$   | $\delta_{max} = \frac{Ml^2}{2EI}$       |

# Beam Analysis In Matlab

**Enrico Primo Tomasini**



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