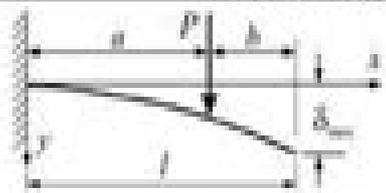
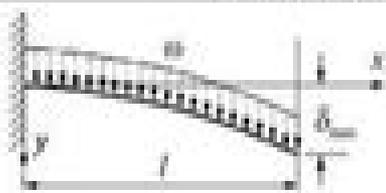
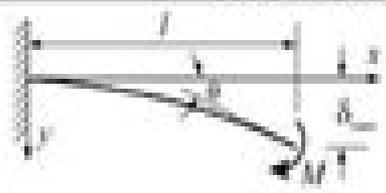


## BEAM DEFLECTION FORMULAE

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			
	$\theta = \frac{Pa^2}{2EI}$	$y = \frac{Px^2}{6EI}(3a - x) \text{ for } 0 < x < a$ $y = \frac{Pa^2}{6EI}(3x - a) \text{ for } a < x < l$	$\delta_{max} = \frac{Pa^2}{6EI}(3l - a)$
3. Cantilever Beam - Uniformly distributed load $w$ (N/m)			
	$\theta = \frac{wl^2}{6EI}$	$y = \frac{wx^2}{24EI}(x^2 + 6l^2 - 4lx)$	$\delta_{max} = \frac{wl^4}{8EI}$
4. Cantilever Beam - Uniformly varying load. Maximum intensity $w_0$ (N/m)			
	$\theta = \frac{w_0 l^2}{24EI}$	$y = \frac{w_0 x^2}{120EI}(10l^3 - 10l^2x + 5lx^2 - x^3)$	$\delta_{max} = \frac{w_0 l^4}{30EI}$
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

**J Spring**



## **Beam Analysis In Matlab:**

## The Enigmatic Realm of **Beam Analysis In Matlab**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Beam Analysis In Matlab** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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