

# TORSIONAL VIBRATIONS



## LINEAR VIBRATIONS VS TORSIONAL VIBRATIONS

- Frequency of linear vibrations

$$f_n = \frac{1}{t_p} = \frac{1}{2\pi} \sqrt{\frac{s}{m}} = \frac{1}{2\pi} \sqrt{\frac{g}{\delta}}$$

- Where,

$s$  = spring Stiffness (N/m)

(**F**orce to **d**eflect the spring by 1 **m**)

$m$  = mass (kg)

(Resistance to **l**inear motion)

- Frequency of torsional vibrations

$$f_n = \frac{1}{t_p} = \frac{1}{2\pi} \sqrt{\frac{q}{I}}$$

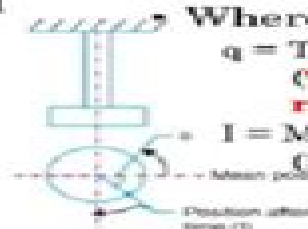
Where,

$q$  = Torsional Stiffness (N·m)

(**T**orque to **r**otate the spring by 1 **rad**)

$I$  = Mass moment of inertia (kg·m<sup>2</sup>)

(Resistance to **r**otary motion)



## TORSIONAL STIFFNESS

- Stiffness

Force per unit length

- Torsional Stiffness

Torque per unit angle(rad)

# Handbook On Torsional Vibration

**Patrick Vollmar**



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