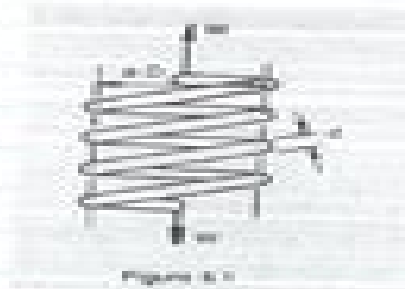


# SPRINGS

①



$W$  = load  
 $D$  = mean coil diameter  
 $d$  = diameter of the wire

$$\text{Torque} = \text{Force applied} \times \text{radius}$$
$$= W \times \frac{D}{2}$$

$$\text{Torque} = \frac{1}{2} W D \quad \dots \dots \dots \text{①}$$

We know that  $\frac{T}{J} = \frac{G \theta}{L} = \frac{\tau}{R}$

therefore  $\frac{T}{J} = \frac{\tau}{R} \Rightarrow \tau = \frac{T R}{J} \dots \text{②}$

Where  $R$  is the radius of the wire  
Substitute ① into ②

$$\tau = T \cdot R \cdot \frac{1}{J}$$
$$= \left( \frac{1}{2} W D \right) \left( \frac{d}{2} \right) \left( \frac{32}{\pi d^4} \right)$$

$$\tau = \frac{8 W D}{\pi d^3} \quad \left[ \text{This is the formula for shear stress in the spring} \right]$$

# Mechanotechnics Nquestion Papers And Answers

**Katrin Zwirglmaier**



## **Mechanotechnics Nquestion Papers And Answers:**

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