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$dA$  5 mixed moment of area about  $x$  and  $y$  axes  $J_G = \int r^2 dA = \int (x^2 + y^2) dA = I_x + I_y$  second polar moment of area about axis through  $G$   $k_x^2 = \frac{I_x}{A}$   $k_y^2 = \frac{I_y}{A}$   $k_G^2 = \frac{J_G}{A}$  squared radius of gyration ...

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Helical Spring Helical coil spring with round wire Equilibrium forces at cut section anywhere in the body of the spring indicates direct shear and torsion Fig. 10 Shigley's Mechanical Engineering Design

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