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2 dA<sup>5</sup> second moment of area about x axis I<sub>y</sub> 5 # x<sup>2</sup> dA 5 second moment of area about y axis I<sub>x</sub> 5 # xy  
dA 5 mixed moment of area about x and y axes J<sub>G</sub> 5 # r<sup>2</sup> 2dA<sup>5</sup> # (x<sup>2</sup> 1 y) dA<sup>5</sup> I<sub>x</sub> 1 I<sub>y</sub> 5 second polar  
moment of area about axis through G k<sub>x</sub><sup>2</sup> x 5 I<sub>xy</sub>A<sup>5</sup> squared radius of gyration ...

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Chapter 8 . Note to the Instructor for Probs. 8-41 to 8-44. These problems, as well as many others in this chapter are best implemented using a spreadsheet.

### **Chapter 8**

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. 10-1 Shigley's Mechanical Engineering Design

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