Thin rod thru centre


Solid disk or cylinder about symmetry axis

Solid disk or cylinder about perpendicular bisector
 about symmetry axis


Solid sphere about diameter


Hollow sphere about diameter

$$
I=\frac{3}{5} M R^{2}
$$

Flat plate about perpendicular axis


Flat plate about central axis


Figure 10.25


## Parallel Axis Theorem

$$
I_{B}=I_{C M}+M h^{2}
$$

Figure 10.9a


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- Real Surfaces deform slightly
- Reaction force leads to resistive force/torque
- Called Rolling Friction
- Very small for steel on steel
- Big for tires (lot's of deformation)

