

## Section 8.5. Parallel-Axis Theorem

**Note.** Consider an object with mass moment of inertia  $I$  about a line (axis)  $L$  through the center of mass of the object. Let  $L_0$  be a line parallel to  $L$  and a distance  $d$  from  $L$ . Then  $I_0 = I + d^2m$  where  $I_0$  is the mass moment of inertia about  $L_0$  and  $m$  is the total mass.

**Examples.** Page 432 Numbers 8.123.

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