

# PHYSICS 160 READING

## ASSIGNMENT FOR APRIL 5

### SECTIONS 9.4, 10.4, 9.5-9.6

Please notice that this file is two pages long.

#### 9.4 - Energy in Rotational Motion

- To find the kinetic energy of rotating object, we have to use its moment of inertia.
- Moment of Inertia - Rotational counterpart to mass. It tells us how hard it is to start an object rotating.
- Table 9.2 will be very useful for the next couple of homework assignments.

#### 10.3 - Rigid-Body Rotation About a Moving Axis

- Here, I just want to read the part about the kinetic energy of rolling. I think it makes more sense to cover this now.

#### 9.5 - The parallel-axis Theorem

- This section details how certain moments of inertia are related to each other.

## 9.6 - Moment-of-Inertia Calculations

- This section is for the hard-core calculus lover only. Enjoy!