Lecture 23

Pre-Lecture Preparation (due within the first 5 minutes of class):

- Read page 302 – 310
- Quick Quizzes: 10.5
- Ch 10 Conceptual Questions: 2, 6, and 7

Goals for the Lecture:

1) Understand how to use Newton's 2nd Law for rotation ($\sum \tau = I\alpha$) to solve problems
2) Know how to use the chart of rotational inertias to find rotational inertia of common shapes about typical axes of rotation
3) Know how to use the Parallel Axis Theorem, in conjunction with the chart of rotational inertias, to find the rotational inertia about any parallel axis of rotation
4) Know how to integrate to find the rotational inertia of one dimensional objects, including objects with non-uniform mass density

Post-Lecture Study Guide:

Review the worksheets or other lecture materi310al within 24 hours (preferably the same day as the lecture) to reinforce the ideas.

Do problems:

Ch 10 Conceptual Questions: 11 and 14

Ch 10: Objective Questions: 6 and 7

Ch 10: Problems: 37, 39, and 40

Continue with the additional recommended study problems from chapter 10