Study Guide for ME296M Lecture 09_11_12

I cannot be there with you in person, but you will get your lecture and guidance today on line. I am overseas at the Scientific Olympics of Astronomy and Aeronautics and this time your professor gets to be one of the judges and also was invited as a keynote speaker. I will share with you the experience. Just as in the athletic Olympics there are delegations from the participating countries and there are events sort of like students competing for best or right answers to problems like the ones we study.

What to do today.

The theme of the lecture is Kinetics of Rigid Bodies using Working Model 2D. Prepare for quiz.

Click and review the following links:

II Learning Working Model 2 D. Mechanisms

- Working Model Tutorial

Example Mechanisms

- Slider Mechanism
- Rolling Disk
- Square Block Forces
- Windshield Wipers Design

III Kinetics of Rigid Bodies: Forces and Accelerations

- Mechanisms 2D Kinetics Notes
  - Exercise 1
  - Exercise 2
  - Exercise 3
  - Exercise 4
  - Exercise 5
These are also on the ME296M Class notes. I would like you to read and review these so you can understand the velocities, accelerations and forces that are produced when a set of rigid bodies that make up a mechanism works as a system.

**Prepare for the first quiz on Thursday, Sept 13, 2012**

The first quiz of ME296M be on Thursday. The topic, Working Model 2D. You will be asked to solve a problem similar to those we have done in class and in the computer exercises. If you review the above links will be helpful. You need to know how to calculate using Working Model 2D, the velocities and accelerations, angular velocities and forces on mechanisms.

**First Quiz (Thursday, September 13, 2012)**