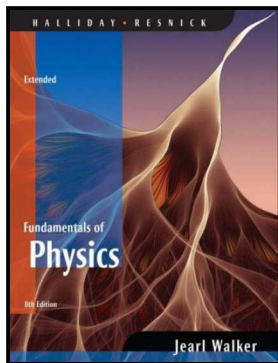


Workshop Physics

1017 - 312

# University Physics II



**Week 10 : Day 3**

# Outline

- ❑ **Quarter Review**
  - **Material for Final Exam**
    - *Chapters covered*
    - *Relative weight*
- ❑ **New Material on Final Exam**
  - **Thin lenses**
  - **Diffraction**
    - *Single-slit*
    - *Double-slit*
    - *Diffraction grating*
  - **Polarization**
  - **Thin films**

# Final Exam FAQ

- ❑ Final Exam
  - Date: Wednesday, February 24<sup>th</sup>, 2010
  - Time: 2:45 – 4:45 PM
  - Place: 09-2580
  - Needed: calculator, straight edge (12" ruler)
- ❑ Material Covered
  - *Textbook Chapters*
    - Chapter 10                      Sections    1 – 10 (all)
    - Chapter 11                      Sections    1 – 12 (all)
    - Chapter 12                      Sections    1 – 7 (all)
    - Chapter 15                      Sections    1 – 9 (all)
    - Chapter 16                      Sections    1 – 13 (all)
    - Chapter 17                      Sections    1 – 10 (all)
    - Chapter 33                      Sections    1, 2, 7, 8, 9, 10
    - Chapter 34                      Sections    1, 2, 7
    - Chapter 35                      Sections    1 – 8 (all)
    - Chapter 36                      Sections    1 – 5, 7, 8
  - *Workshop Activities*
    - Graphing
    - Uncertainties
    - Error propagation

# Syllabus Reminders

## □ Grading components

- Tests\* (three 1-hour tests): 40 %
- Final Exam\* (2-hour): 25 %
- WebAssign Homework: 15 %
- Workshop Activities and Labs: 20 %

**\*Note: You must have a 60% average on the three tests and on the final exam to pass course.**

# Test and Chapter Topics

## □ Test # 1

- Chapter 10 Rotation
- Chapter 11 Rolling, Torque, and Angular Momentum

## □ Test # 2

- Chapter 11 Rolling, Torque, and Angular Momentum
- Chapter 12 Equilibrium and Elasticity
- Chapter 15 Oscillations

## □ Test #3

- Chapter 16 Waves – I
- Chapter 17 Waves – II
- Chapter 33 Electromagnetic Waves

## □ Final Exam

- All previous material +
  - Chapter 33 Electromagnetic Waves
  - Chapter 34 Images
  - Chapter 35 Interference
  - Chapter 36 Diffraction

Between 1/4 and 1/3  
of material on the final  
is new material!