

Physics 096

General Information

Instructor: Junru Wu, A526 Cook.
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Office Hours: Mon 3: 30 - 4:30 p.m., Thurs. 3:30 -4:30 p. m. or by appointment.
Teaching assistant: Mr. Isaac Backus, cook A 539; 802-310-1844; ibackus@uvm.edu

Materials:

Textbook: "Conceptual Physics" by P.G. Hewitt, Tenth Edition, Addison-Wesley.
Pocket calculator with functions, scientific notation and exponential functions.
The following chapters will be covered:
Mechanics (Chapters 2, 3, 4, 5, 6, 7, 8, 9, 10), Properties of Matter (Chapter 11, 13), Heat (Chapter 15, 16, 17), Light (Chapter 26, 27, 28), Atomic and Nuclear Physics, (Chapter 32, 33).

Course format: Two 75-minute lectures per week on Tuesday and Thursday at 2:30 P.M.- 3:45 PM, B112 Angell. New topics will be presented at this time.

Homework:

Homework problems serve as illustrations of the lecture material and are essential towards consolidation of the students' grasp of physical principles.

Examinations:

There will be two hourly exams based on lecture, homework and textbook material. The final examination will be cumulative.

Course Grades:

For each student, a score will be computed based:
Hourly exams: $2 \times 20\%$;
homework: 30%;
Final examination: 30%. 03:30 PM - 05:30 PM, Thursday Apr, 30 2009

Excuses:

circumstances beyond a student's control warrant an absence. Valid excuses for such absences are notes from the academic dean, the attending physician, the team coach, the officiating clergyman, the presiding judge, the arresting officer, the FEMA official etc. Merely being seen by a physician does not constitute a valid excuse neither does a sibling's out-of- town wedding.

Missing Hourly Exams:

Missing an hourly exam will result in a score of zero unless the student has a valid excuse as defined above. A student with a valid excuse will not given a make-up exam. His/her final score will be renormalized.

Missing the Final:

Missing the final examination will result in a final course grade of F unless the student has arranged with the instructor through the appropriate academic dean for an "Incomplete."

Homework Assignment

Chapter 2: Exercises: 7, 13, 18, 23, 26, 28, 49

Chapter 3: Exercises: 3, 6, 8, 20, 28, 29

Chapter 4: Exercises: 1, 3, 14, 19, 26, 28, 29, 32, 33, 34, 41, 59

Chapter 5: Exercises: 7, 13, 21, 27, 40, 45

Chapter 6: Exercises: 19, 25, 36, 48, 50, 52

Chapter 7: Exercises: 4, 12, 15, 24, 26, 37, 43, 46, 49, 57, 62, 68

Chapter 8: Exercises: 6, 10, 11, 20, 22, 32, 36, 39, 43, 48, 52, 54

Chapter 9: Exercises: 10, 18, 28

Chapter 10: Exercises: 9, 12, 18, 27

Chapter 11: Exercises: 18, 30, 33, 40, 44, 49

Chapter 13: Exercises: 2, 12, 24, 34, 37, 52

Chapter 15: Exercises: 18, 32, 41, 44, 46, 52

Chapter 16: Exercises: 11, 15, 25, 30, 42, 44

Chapter 17: Exercises: 12, 15, 17, 33, 39, 42

Chapter 26: Exercises: 19, 29, 32, 33, 47, 48

Chapter 27: Exercises: 11, 12, 25, 26, 35, 50

Chapter 28: Exercises: 8, 10, 18, 27, 34, 42

Chapter 32: Exercise: 1, 2, 6, 8, 11, 16, 34

Chapter 33: Exercises: 11, 25, 28, 32, 37, 40