

Problems for Physics 132

These are the problems since the second midterm

- Faraday's Law

Lecture: Example 32.1, Giancoli 29.5, Lenz Law Prctice, Example 32.5

Assigned: Formal Homework, 32.074, 32.007, 32.069, 32.068, 32.025

- Inductors, and LC circuits

33.008, 33.031, 33.023

- Maxwell equations and Ampere's law with Maxwell correction

Lecture: 34.011,

Assigned: 31.056

- Waves

Lecture: 34.032, Energy-densities, Sunlight, E-field on solar surface, Electromagnetic Pressure on Sun

Assigned: 34.083, 34.069

This was the problems for the second midterm

- Kirchoff Rules and Circuits
29.047, 29.049, 29.065
- RC circuits
29.060
- Forces on wires in magnetic fields
30.056, 30.062, Report on a current loop
- Forces on particles
30.046, 30.047, Example 30.5, 30.085, Magnetic forces on charged particles
- Torques on current loops
An exercise on ranking, Report on a current loop
- Magnetic field from wires (Bio Savart)
30.082, 30.026, 30.009, Example 30.3, 30.018
- Forces between wires
30.064, 30.068, Force between wires, Forces between current loops
- Amperes Law – Do these in order.
Lect. Example 31.5, Lect. a conceptual exercise, 31.067,
Lect- Example 31.7 (slightly modified), 31.027, 31.022
Lect - Example 31.3 (slightly modified) , 31.17,
Lect - Example 31.8, 31.074,
31.069