

HUNTER COLLEGE OF CUNY
Department of Physics
Fall 2011
PHYS 334: Intermediate Electromagnetism

Lecturer: Professor Y.C. Chen
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Office hour: Mon. 4-5 pm

Text: The course will follow Robert H. Good, Classical Electromagnetism
Edition, Thomson) Chapters 1-9
Lectures: Mon & Wed. 5:35-7:35pm.

First Mid-Term: Mon. Oct. 10 2011
Second Mid-Term: Mon. Nov. 14, 2011 End-Term Exam (Cumulative): Set by the Registrar

Problem Sets: Roughly every week. Solutions will either be posted or we will discuss
the solutions in class.

Tentative Outline

Vector Analysis: Chapter 1.
Electric & Magnetic Fields: Chapters 2 & 3.
Electromagnetic Induction: Chapter 4.
Maxwell's equations: Chapter 5.
Energy and Potentials: Chapter 6.
Dipole and multipoles Chapter 7
Conductors Chapter 8
Dielectrics Chapter 9.

Last class is on Mon. December 12, 2011. There will be a total of about twenty-seven lectures.
Please note:

First Midterm: 25%
Second Midterm: 25%
Quizzes: 10%
Final Exam: 40%
TOTAL 100%

There will be no make up for midterm examinations.