Physics 334

Intermediate Electricity & Magnetism - Sp16

Lecturer: Distinguished Professor Godfrey Gumbs Office: 1247N; Phone #: 650-3935 E-mail: ggumbs@hunter.cuny.edu Web page: http://www.hunter.cuny.edu/physics/faculty/gumbs/home Text: The course will follow Robert H. Good, Classical Electromagnetism (Edition, Thomson)

Lectures: Monday & Thursday: 2:10-4:00, PM First Mid-Term Quiz: Monday, March 7, 2016 in 1311HN Second Mid-Term Quiz: Monday, April 18, 2016 in 1311HN End-Term Exam (Cumulative): Set by the Registrar Problem Sets: Roughly every other week. Solutions will either be posted or we will discuss the solutions in class.

Tentative Outline

- 1. Vector Analysis: Chapter 1.
- 2. Electric & Magnetic Fields: Chapters 2 & 3.
- 3. Electromagnetic Induction: Chapter 4.
- 4. Maxwell's equations: Chapter 5.
- 5. Energy and Potentials: Chapter 6.
- 6. Dipoles & Multipoles Analysis: Chapter 7.
- 7. Conductors: Chapter 8.
- 8. Dielectrics: Chapter 9
- 9. Maxwell's Equations with Materials: Chapter 11.

Last class is on Monday, May 16, 2016. There will be a total of about twenty-seven lectures.

Please note:

- Colloquium on Friday February 5 at the University of South Florida.
- Monday February 15: Presidents Day College closed.
- American Physical Society March Meeting: March 13-15.
- 22 30 April: Spring Recess.
- Thursday 9 April: Reading Day.

Grades Computed as Follows First Midterm: 20% Second Midterm: 20% Final Exam: 60% TOTAL 100%

OFFICE HOUR: THURSDAY : 1:00-2:00 PM

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