

STATE UNIVERSITY OF NEW YORK
New Paltz, New York.

Electricity and Magnetism
Course No. PHY313 (3 credits)
Fall 2018

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Text

Introduction to Electrodynamics (fourth edition) by David J. Griffiths.

Course Description

The following topics will be covered in this course.

- Electrostatics (Chap. 2).
- Potentials (Chap. 3 and numerical solutions).
- Magnetostatics (Chap. 5).
- Electrodynamics (Chap. 7).
- Electromagnetic Waves (Chap. 9).

Grading Policy

There will be a mid-term and a final exam (both open book). The following weights will be assigned for the determination of the final course grade.

Mid-term exam	40%
Final exam	60%

Problems for Home Work

Chap. 2 – 1, 4, 6, 7, 8, 16, 17, 21, 22, 25, 28, 34, 35.
Chap. 3 – 1, 2, 13, 19.
Chap. 5 – 2, 3, 4, 9, 11, 14, 17.
Chap. 7 – 7, 15, 23, 24.
Chap. 9 – 9, 10.

Administrative Addenda

Student Learning Outcomes

To acquire skills in the mathematical analysis of problems in electromagnetism using vector calculus and differential equations.

Academic Integrity Policy

http://www.newpaltz.edu/ugc/policies/policies_integrity.html

Disability Resources

https://www.newpaltz.edu/drc/policy_procedure_manual.html

Veterans Resources

<http://www.newpaltz.edu/veterans>

Computer and Network Policies

<https://sites.newpaltz.edu/csc/policies/acceptable-uses-and-privacy-policy/>

Deadlines

<http://www.newpaltz.edu/events/academic.php>