

PHY-301 : Electromagnetism

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Outline

1. Vector calculus
2. Electrostatics in vacuum
3. Electric currents
4. Magnetostatics in vacuum
5. Magnetostatics in matter
6. Maxwells equations
7. Relativity
8. Electromagnetic waves
9. Electromagnetic radiation

Reference Material

Introduction to electromagnetism, David Griffiths, Ed. Cambridge University

Electromagnetism, Pollack and Stump, Ed. Addison and Wesley

Grade

The grade will be : Hw (20%) + Mid (40%) + Fin (40%)

Grader

TBA