Electricity and Magnetism

- Supplemental Modules (Electricity and Magnetism)
  - Electricity
  - Electromagnetic Waves
  - Fields
  - Magnetism
This is the first in a series of chapters on electricity and magnetism. Much of it will be aimed at an introductory level suitable for first or second year students, or perhaps some parts may also be useful at high school level. Occasionally, as I feel inclined, I shall go a little bit further than an introductory level, though the text will not be enough for anyone pursuing electricity and magnetism in a third or fourth year honours class.

- Front Matter
- 1: Electric Fields
- 2: Electrostatic Potential
- 3: Dipole and Quadrupole Moments
- 4: Batteries, Resistors and Ohm’s Law
- 5: Capacitors
- 6: The Magnetic Effect of an Electric Current
- 7: Force on a Current in a Magnetic Field
- 8: On the Electrodynamics of Moving Bodies
- 9: Magnetic Potential
- 10: Electromagnetic Induction
- 11: Dimensions
- 12: Properties of Magnetic Materials
- 13: Alternating Current
- 14: Laplace Transforms
- 15: Maxwell’s Equations
- 16: CGS Electricity and Magnetism
- 17: Magnetic Dipole Moment
- 18: Electrochemistry
- Back Matter

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