

Download Classical Electricity & Magnetism

Magnetism is a class of physical phenomena that are mediated by magnetic fields. Electric currents and the magnetic moments of elementary particles give rise to a magnetic field, which acts on other currents and magnetic moments. The most familiar effects occur in ferromagnetic materials, which are strongly attracted by magnetic fields and can be magnetized to become permanent magnets ...8.02 is a second-semester freshman physics class in electromagnetism. The website features lecture notes, problem sets with solutions, exams with solutions, links to related resources, and a complete set of videotaped lectures. The 36 video lectures on Electricity and Magnetism, by Professor Lewin, were recorded on the MIT campus during the Spring of 2002.2.3: Electron-volts: 2.4: A Point Charge and an Infinite Conducting Plane: 2.5: A Point Charge and a Conducting Sphere: 2.6: Two Semicylindrical Electrodes