

Electrodynamics

A: Electrostatics & Magnetostatics

textbook: "Introduction to Electrodynamics"
David J. Griffiths

Motivation

- basis of modern technology
- foundation of our understanding of many phenomena
 - electricity, magnetism
 - atoms
 - chemistry
 - mechanical phenomena (friction, collisional forces, ...)
 - light
 - ...
- historical importance
 - one of the most complete theories in physics
 - motivated many further developments (special relativity, ...)
 - first example of "unification of theories" in physics

