

PHYSICS 303
ELECTROMAGNETIC THEORY I
(3.0 ; 3 credits)

Textbook: Classical Electrodynamics

By: J.D. Jackson
(John Wiley & Sons)

Content:

1. Boundary value problems in electrostatics.
2. Multipoles, electrostatics of macroscopic media, dielectrics.
3. Magnetostatics.
4. Time-varying fields, Maxwell's equations.
5. Plane electromagnetic waves.

Fall 2000