

Review Chapters 1-6

Vector Calculus

Coordinate Systems

Identities

Divergence + Stokes

Electric Field

Coulomb's Law

Gauss' Law

Potential

Capacitance

Energy

Force / Pressure

Boundary Value Problems

1-2D rectangular

cylindrical (no z)

spherical (no ϕ)

image charges

Electric, Magnetic, Other

Dielectric Materials

$$\vec{D}, \vec{E}, \vec{P}$$

Linear Dielectrics

B.V. Problems

Magnetic Field

Biot-Savart

Ampere

Vector Potential

Magnetic Materials

$$\vec{M}, \vec{H}, \vec{B}$$

Magnetic Circuits