EECE 305: Fund: Electromagnetics

Electric fields, flux and potential, Coulomb's Poisson's and Gauss's laws, permitivity and conductivity, magnetostatics, magnetic materials, magnetic materials and forces, Biot-Savart law and time varying fields, Maxwell's equations in integral and differential forms, time-domain analysis of waves. Application of electromagnetic theory to Transmission lines
Credits: 4
Prerequisites/Permissions:
MATH 158 and PHYS 014
Program:

Electrical Engineering

COURSE DESCRIPTIONS