

Special Topics in Photonics Engineering

- Introduction and Motivation
 - Maxwells equations and boundary conditions
 - Polarization and Scattering
 - Electromagnetic Properties of Materials
 - Electromagnetic Properties of Materials (Nonlinear and Anisotropic Materials)
 - Engineered Materials
 - Introduction to Metamaterials
 - Metamaterials Applications
 - Metatronics
 - Periodic Structures and Photonics Crystals
 - Subwavelength Gratings
 - Diffraction gratings
 - Frequency Selective Surface
 - Guided Mode Resonance
 - Surface Wave and Plasmonics
 - Slow Wave
 - Transmission-line model (CRLH Structures)
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