



# Scratching the Surface - An Introduction to Photonics - Part 1 Optics, Thin Films, Lasers and Crystals

*Jeffrey Richling*

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A beginner's introduction to Optics, Thin Films, Lasers and Crystals. Parts 1-3 cover: absorption, angle of incidence, antireflection, bandgap, birefringence, Bravais, lattice, damage, dielectric, crystallography, grating, diode, electric field, diffraction, oscillator, electro-optic, emission, energy gap, poling, fiber optic, fluorescence, frequency, geometrical optics, glide plane, graded-index, grinding, group velocity, harmonic generation, index, interference, filters, cavity, diodes, pumping, laser, light, melting glass, Miller indices, mode-locking, molding, nonlinear, semiconductor, nucleation, optical cavity, coatings, resonator, phase shift, phase velocity, phonon, photon, p-n junction, point group, polishing, population inversion, Q-switched, saturable absorber, screw axis, semiconductor, solid state, space group, substrate, sum-frequency, tuning, temperature-bandwidth, thin films, transmission, unit cell, unstable resonator, walkoff, wave vector, waveguide, wavelength

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