PHY 223: Waves and Optics  2 Units

Department of PHYSICS

Covenant University
1. PHY223

1.1. PHY 223: Waves and Optics 2 Units

Prerequisite: PHY 112

Wave phenomena, acoustical waves, the harmonic oscillator, waves in strings, energy in waves, longitudinal waves, standing waves, group and phase velocity; spherical Waves, Doppler effect; geometrical optics: refraction and reflection at spherical surfaces, thin and thick lenses, prisms, optical instruments, microscopes, telescopes, spectrometers; physical optics: interference, diffraction, dispersion, scattering, thin films, crystal diffraction, polarization and holography.