

**hecht optics solutions pdf**

Fourier optics is the study of classical optics using Fourier transforms (FTs), in which the waveform being considered is regarded as made up of a combination, or superposition, of plane waves. It has some parallels to the Huygens-Fresnel principle, in which the wavefront is regarded as being made up of a combination of spherical wavefronts whose sum is the wavefront being studied.

**Fourier optics - Wikipedia**

A diffraction grating is an optical component with a regular pattern. The form of the light diffracted by a grating depends on the structure of the elements and the number of elements present, but all gratings have intensity maxima at angles  $\theta_m$  which are given by the grating equation  $(\sin \theta_m + \sin \theta_i) = m\lambda/d$ . where

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