Discrete light diffraction and wavelength set
SCN-F004B

Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: Light and optics. Diffraction of light through holes and slits. The central point and the central maximum. Determining the wavelength of light. The behavior of light when passing through a hole. The behavior of light as it passes through three different pairs of double slits. The behavior of light when passing through three sets with different numbers of slits of the same width. Using an orifice of known diameter to determine the laser wavelength. The diffraction angle. The Bessel function and equation to find the laser wavelength. Laser diffraction by grating, grating constant 1.00×10^{-6} m. Diffraction and Huygens principle. Light interference, Youngs double slit experiment. The central point and the central maximum. The points of constructive interference. Determining the laser wavelength by knowing the lattice constant. Laser diffraction by gratings, grating constant 8.33×10^{-5} m, etc.

Knowledge areas

Physics

Level

Graduation - High school