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Measuring light wavelength with plane transmission grating within
wide spectral range

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Abstract: The wavelength is calculated in terms of the relation between wavelengths and spacing of the spectral lines of different wavelengths in the spectral plane of plane transmission grating. In terms of the relation between wavelengths and spacing of the spectral lines of different wavelengths, the wavelength was measured and calculated within a wide spectral range and with an excellent accuracy. The theory and method of measuring the light wavelength may find important application to the design of grating spectrometer.

Keywords: plane transmission grating, spectral line, wavelength, geometrical spacing, measurement of light wavelength, wide spectral range.

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