

Comparative analysis of the chromatism of diffractive and refractive lenses

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Abstract

The results of a comparative analysis of the chromatism of diffractive and homogeneous refractive lenses are presented. The possibilities of correcting third and fifth-order spherochromatism of such lenses are discussed. Recommendations are given on the effective use of various types of lenses in hybrid refractive-diffractive optical systems.

Keywords: diffractive lenses, refractive lenses, optical system, fifth-order spherochromatism.

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