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Characterization of the refractive index in gradient-index elements

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Keywords

GRIN lenses measurements, refractive index measurement, GRIN glass

Abstract

The paper is focused on measurement techniques of gradient-index elements particularly useful for slightly inhomogeneous glasses from small laboratory melts. A construction of the measurement cuvette and dependence of the refractive index of an immersion liquid on its parameters is discussed. The dependence of the refractive index of α -bromonaphthalene on temperature for $\lambda = 0.6328 \mu\text{m}$ is described. A measuring method of the refractive index profile of gradient-index elements is presented.



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