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Photoinduced Anisotropy in Azopolymer Studied by Spectroscopic and Polarimetric Parameters

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We discuss methods for synthesis and fabrication of photosensitive thin azopolymer films. Spectroscopy of films presents information as about nonactinic and recording wavelengths as a for refraction index calculations by Swanepoil method. Photoinducing of anisotropy was done by blue laser. The resulting polarimetric light parameters produced by photoinduced anisotropy measured at nonactinic He-Ne red wavelength. For this aim a polarimeter was applied. Kinetics of a value of photoinduced anisotropy, azimuth and ellipticity of light passed through films were investigated.