

## **HOLOGRAPHIC INFORMATION MEDIA BASED ON AZO-POLYMERS WITH DIFFERENT STRUCTURES**

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**Abstract.** Azobenzene polymer compositions are extensively studied now due to wide perspectives of their applications in optoelectronics and information technologies. Some possibilities of modification of their properties by chemical methods are analyzed in the present work. These methods allow to improve information characteristics of the media. Electrooptical effect is investigated and possibilities of polarization sensitive holographic recording is demonstrated in copolymer octyl methacrylate with incorporated azo dyes and its complex with Co ions.

**Keywords:** azobenzene, metallic polycomplexes, polymer composition, electrooptical effect, polarization holography.