HOLOGRAPHIC PHOTOTHERMOPLASTIC MEDIA BASED ON DONOR-ACCEPTOR SYSTEMS

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S u m m a r y

The main new informational characteristics of holographic recording photothermoplastic media based on films of poly-N-epoxycarbazole and the organic compound with intra- and intermolecular charge transfer are studied. Compounds with the intramolecular charge transfer from a donor to an acceptor through the system of π-bonds provide a greater holographic sensitivity and selectivity of absorption than compounds, for which the transfer occurs through space. In these recording media, the long-time latent image storage effect before the hologram development is discovered and explained.