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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 62 pages. OCLC Number: (OCoLC)58751199 Excerpt: . . . P1 GRC HBCUS OMUS RESEARCH CONFERENCE All-Optical Micro Motors Based on Moving Gratings in Photosensitive Media M. Curley, S. Sarkisov, and A. Fields Alabama A and M University 4900 Meridian Street P. O. Box 1268 Normal, Alabama 35762 ABSTRACT This research effort was a feasibility study of the concept of an all-optical micro motor with a rotor driven by a traveling wave. The wave was a result of a photo induced surface deformation of a photosensitive material produced by a traveling holographic grating. Two phases modulated coherent optical beams were used to generate the grating in two types of photosensitive materials. The materials that were studied were photorefractive crystals and thin polymer films. Theoretical studies were performed on lithium niobate giving predictions of deformations of the order of nanometers. The experimental deformation size was also on the order of nanometers. The deformations were deep enough to provide conditions for the implementation of the all-optical motor using lithium niobate. We also were able to align micron-size dielectric particles along the holographic gratings by means of the periodic electric forces generated by the grating. These forces can also move the particles along the surface if the grating is moving. We then turned our attention on thin films and obtained a deformation visible on the order of 100 microns. An experimental breadboard demonstration of a prototype was done in the summer of 2001 at GRC. The demonstration included the movement of clocks mechanical workings by an optically driven motor based on a polymer film. The application of this technology can be adapted to government as well as industrial uses. One such project is to make a chemical sensor for the detection of...



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