

# ABSTRACTS OF PAPERS FROM OTHER JOURNALS

**Amorphous GdCo Film for Magneto-Optical Disk Storage**, Yuji Togami, Kikuo Kobayashi, and Teruo Teranishi, *NHK Technical Monograph*, No. 33, September 1983.

Magneto-optical storage systems are attracting interest as erasable optical disk systems with high packing density. The principle of, and materials for, magneto-

optical storage are reviewed. Experimental results for improving an amorphous GdCo film for magneto-optical use and for recording color TV signals on an improved GdCo disk are given in detail. It is emphasized that amorphous rare earth-Co alloy films, such as those of GdCo, are promising materials for magneto-optical storage.

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**A Synthetic Aperture Receiver with Holographic Recording**, P. Lewis, *The Radio and Electronic Engineer*, 23, January 1984.

A receiver that sampled the 1-GHz radio field distribution along a 32-m horizontal line is described. The field distributions were recorded as one-dimensional, offset reference holograms. Computer processing of the holograms formed focused images of scatterers near the line-of-sight path between a CW transmitter and the receiving aperture. These images took the form of reconstructed wavefronts, which were further processed by a technique involving complex division and subtraction. Some test results are presented in which a nearby signal source and an obstacle casting a shadow were imaged.

**Opto-Electronics — A New Dimension in Electronics**, D. E. N. Davies, *The Radio and Electronic Engineer*, 1, January 1984.

Optical technology is playing an expanding role in modern electronic systems. Apart from the much publicized aspects of optical fiber communications, we are currently making use of opto-electronics in television cameras, displays, signal processing, and sensors. This paper briefly reviews the developing role of opto-electronics and concentrates on the three separate fields of communications, sensors, and radar systems. It concludes that the combined power of optics and electronics represents a formidable capability that is still at an early stage of development. The broader impact of such changes within the profession is also mentioned.

**A Low-Cost High-Intensity Absolute Monochromatic Sensitometer**, G. G. Attridge and R. Trunley, *Journal of Photographic Science*, 37, January/February 1984.

The requirement and specification for an absolute monochromatic sensitometer are reviewed, and design considerations are discussed. The instrument constructed and its calibration are described. Practical applications to fundamental investigations of photographic systems are briefly indicated and the exposures required for a range of materials are shown.

**Performance Evaluation in an ISDN — Digital Transmission Impairments**, P. Hockett, *The Radio and Electronic Engineer*, 97, February 1984.

This paper considers the performance evaluation of the future integrated services digital network. Emphasis is given to the measurement and instrumentation necessary to quantify the most important digital transmission impairments, jitter and errors. The trend towards noninvasive measurements and automated testing made possible by advances in digital technology are reviewed.



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