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Clearinghouse Publications

The publications listed below are available from Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151. Unless otherwise noted each report is \$3.00 (microfiche 65 cents).

For the convenience of the reader, titles and brief descriptions of the publications have been grouped under six categories.

Acoustics

AD-670 985, *Ultrasonic Image Conversion Systems Investigation*, W. M. A. Andersen and R. P. L'Heureux, 27 pp. Studies application of variable focal length acoustic lens devices in conjunction with an ultrasonic conversion system for minimization of operator interpretation problems. An electron-beam scanning system capable of providing video presentations of inhomogeneities in materials is described.

Communications

AD-676 814, *Atmospheric Effects on Digitally Modulated Laser Transmission*, M. M. Whatley and D. A. Smith, 21 pp. Studies the effect of the atmosphere on laser propagation, modulation and communication capabilities pertinent to tactical applications. Studies are made under varying conditions of weather, path length, optical power, modulation depth, and modulation method.

AD-675 227, *618S-1/MC HF Receiver Transmitter Evaluation Program*, Emerson Electric Co., 156 pp. Evaluates 618S-1MC equipment performance, identifies problem areas, and gives corrective modifications for improving receiver-transmitter reliability.

N68-28379, *Communications Satellites: A Continuing Bibliography With Indexes*, NASA, 41 pp. A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA information system during the period April 1967-December 1967.

PB-178 993, *A 15 to 25 MHz Digital Television System for Transmission of Commercial Color Television*, L. Golding, 28 pp.

PB-178 994, *Experimental Determination of Intermodulation Distortion Produced in a Wideband Communications Repeater*, A. Berman, 72 pp.

AD-671 596, *Frequency-Shift Keying Laser Communication Studies*, D. A. Smith, 144 pp. Investigates methods of digital modulation, transmission, and detection in the optical region. A frequency-shift keying laser communication system is described.

PB-178 649, *Instrument for Measurement of X-Ray Emission From Television Sets*, R. K. Stoms and E. Kuerze, 18 pp.

PB-178 650, *A Pilot Survey of X-Radiation Emissions From Color Television Re-*

ceivers (in Pinellas County, Florida), D. Smith, et al., 18 pp.

PB-178 651, *A Survey of X-Radiation From Color Television Sets in the Washington, D.C., Metropolitan Area*, Technical Services Branch, 36 pp.

AD-669 824, *International Symposium on Information Theory: Abstracts of Papers*, 41 pp.

Information Technology

PB-178 580, *Report of the Ad Hoc Committee on Patent Documentation*, 90 pp. Application of new technology to Patent Office operations and ways in which present Patent Office programs might be strengthened and improved have been studied by the Ad Hoc Committee on Patent Documentation appointed by Secretary of Commerce, Alexander Trowbridge.

The Committee has considered short-term needs vs. long-term goals, management tools which will permit evaluation of the long-term and short-term effects of alternative procedural changes, the nature of the patent document, various aspects of the patent search, an aperture card microfilm system, patent information dissemination, international activities, and a research and development program that extends beyond five years. Principal conclusions and recommendations of the Committee include: (1) effective long-range planning is needed to provide guidelines for Patent Office management; (2) continuity of management and staff is essential to Patent Office operations; (3) sophisticated management tools should be developed, with emphasis on development and implementation of a management information system; (4) clear assignment of responsibility for system design should be made; (5) a broad review of the form and content of the patent document should be undertaken; (6) development of the reclassification priority model should be continued and extended to cover all search techniques; (7) plans for using patents in machine-readable form should be developed, and present patent printing operations should be converted to provide a machine-readable by-product; and (8) efforts should continue.

AD-67 623, *Mobile Library Filming Device*, C. E. Martin, 49 pp. Describes a mobile library filming device consisting of a camera and self-contained power source. Report gives design, operating and maintenance instructions, and photographs of the device during performance tests.

PB-178 587T, *Investigation of Scientific Journals as Communication Channels*, Z. B. Barinova, et al. (translated from the Russian). Appraising the contribution of individual countries to the world scientific information flow, 23 pp.

PB-180 135, *Information Technology: Selected Bibliographic Citations*, Dept. of Commerce, Office of State Technical Services, 54 pp. Bibliographic citations (with abstracts) announced in U.S. Government Research and Development Reports, 1966. Reports listed concern recent federally sponsored research and development in information technology and, with few exceptions, can be purchased from the Clearinghouse.



1. Joe Potts at controls of Pako Model 28EK Processor. 2. WAGA-TV office and studio building, Atlanta. 3. Bill Buckler (left) chief photographer, and Jim Shirley, Treck PhotoGraphic of Atlanta.

Pako helps cut film processing costs in half

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including overhead.” Bill mentioned that the 28EK would pay for itself in a very short time, even though it is in operation only 2 to 3 hours a day.

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If your film department is thinking of installing automatic processing equipment, contact your Pako Distributor or write to Pako Corporation, 6300 Olson Memorial Highway, Minneapolis, Minnesota 55440.



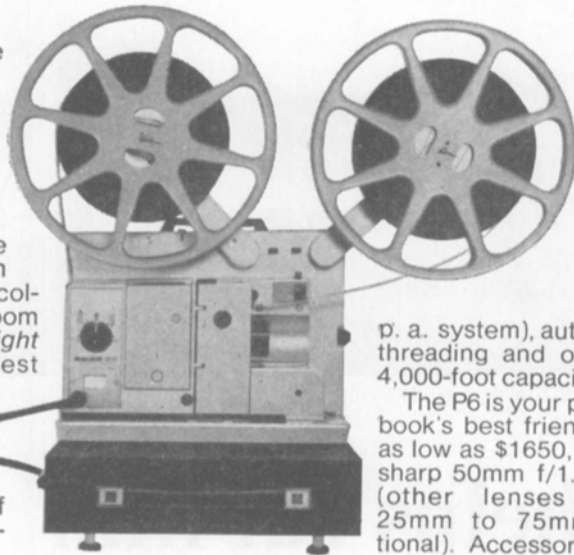
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Optics

AD-670 199, *Investigation of Mode-Locking And Certain Other Mechanisms in Lasers and Their Implications*, H. Stutz, et al., 95 pp. Investigates mode locking and formation of subnanosecond pulses in solid state and gaseous lasers; and studies limitations resulting from mode suppression or mode locking in rotation sensing ring lasers or similar devices.

AD-670 053, *Problems in the Specification of Luminous Efficiency: Study of Visual Perception in Humans and Animals*, J. L. Brown, 27 pp. Considers problems of specifying luminous efficiency in relation to the entire range of visual function from scotopic to photopic. The changing spectral response which accompanies changing adaptation and changing nature of the visual task is taken into account.

AD-667 389, *Detection of Atmospheric Oxygen Using a Tuned Ruby Laser*, J. B. Mason, 37 pp. Employs a cryogenic temperature control to provide tuning capability for a Q-switched ruby laser. Atmospheric transmission of the laser output over a 9.8 km path is measured while the laser is tuned in the wavelength region of the O₂ absorption line at 6941.22 Å.

N68-35175, *Survey of CO₂ Laser Development for Space Applications*, T. R. Lawrence, 52 pp. Discusses how CO₂ lasers work, how they were developed, what the present stage of development is, and what further developments are needed to obtain a laser that will be suitable for a space-earth communication link.

AD-678 490, *Fiber Optics With Extended Ultraviolet Transmission*, P. C. Li, et al., 52 pp. Studies on fabrication of fiberoptic faceplates for cathode-ray tubes with high transmission in the near- and middle-ultraviolet spectral regions.

AD-678 554, *Investigation of Operational Possibility of Laser Radiation in Partial Coherence Region*, H. Gamo and T. J. Walter, 318 pp. Investigates superradiant radiation in a high gain infrared transition. Special emphasis is on non-Gaussian wave-amplitude statistics.

AD-677 073, *Foreign Laser Abstracts*, (Vol. 1, No. 1) Aerospace Technology Div., Library of Congress, Washington, D.C., 55 pp. A new monthly publication bringing together current laser research and development papers published in open-source scientific and technical literature of the Soviet Bloc countries.

AD-673 858, *Research Investigation of Laser Line Profiles (Picosecond Laser Pulses)*, M. J. Brienza et al., 80 pp. Annual Report for 1 August 1967 to 31 July 1968 covering the following topics: (1) propagation characteristics of ultra-short pulses; (2) measurement of nanosecond fluorescence decay times; (3) light amplification in saturable absorbers with picosecond light pulses; (4) interaction of intense frequency swept laser pulses with matter; (5) optical rectification of mode-locked laser pulses; and (6) mode-locking of organic dye lasers.

AD-673 446, *Fiber Optics With High Ultraviolet Transmission*, C. W. Deneka, 46 pp. Develops a glass composition which is suitable for use as a core material in fiber optic devices operated in the near ultraviolet portion of the spectrum.

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