

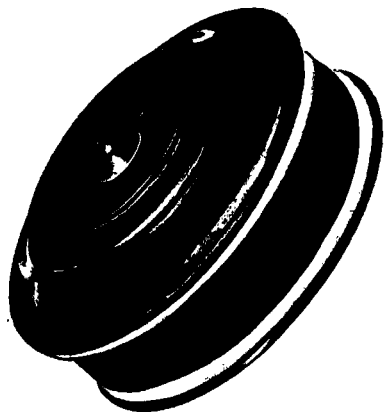
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BOOKS
BOOKLETS AND BROCHURES

Activities of the National Medical Audiovisual Center in Atlanta, Ga., are set forth in an illustrated booklet containing photographs of the Center's staff engaged in such varied occupations as transferring video tape to film, taking part in communications conferences and workshops, packaging films for worldwide distribution and many related activities. The booklet is available upon request from National Medical Audiovisual Center, Atlanta, Ga. 30333.

Catalog of Emission Lines in Astrophysical Objects, by A. B. Meinel, A. F. Aveni and M. W. Stockton, Optical Sciences Center Technical Report No. 27, is available from Optical Sciences Center, University of Arizona, Tucson, Ariz. 85721. It is priced at \$4.00.

Techniques of map reproduction are explored in *A Technical Appraisal of the 70mm Format for Map Reproduction*. The 44-page illustrated booklet contains five papers presented at a symposium held in January, 1968, at Hatfield Technical College. The booklet is available from The Director, NRCd, Hatfield College of Technology, College Lane, Hatfield, Hertz, England, at a price of \$3.00.

The State of Public Broadcasting, a report prepared by the National Citizens Committee for Public Broadcasting, is available by writing to the Committee at its headquarters at 609 Fifth Ave., New York, N.Y. 10017. Thomas P. Hoving is Chairman of the Committee and Ben Kubasik is Executive Director. According to the Preface of the 26-page report, it is based on the premise that "the security and welfare of our nation depends on the increasing enlightenment of its constituency. An enlarged capability for informing and educating all of our people can be developed through a free broadcast service dedicated exclusively to the public interest — provided that service has the resources to serve." The report contains various proposals and recommendations for improving the quality of public broadcasting.

A list of Kodak publications on motion-picture and audio-visual subjects, including price list and order form, is available from Eastman Kodak Co., Motion Picture and Education Markets Div., Rochester, N.Y. 14650. Types of literature available include Kodak pamphlets giving information about photographic subjects, including audio-visual products; an audio-visual literature packet containing about 30 specially selected audio-visual pamphlets and information sheets; *Kodak Dataguides* and other items.

A discussion of time-lapse photography is contained in a recent issue *Audiovisual Notes From Kodak* (No. T-91-8-2) available upon request from Eastman Kodak Co., Motion Picture and Education Markets Div., Rochester, N.Y. 14650. Illustrations of time-lapse equipments and films are given.

Films for the farming community are available to TV stations in the United States on a free-loan basis to provide current coverage of new farming methods and equipment and other subjects of general interest to the rural community. The films are sponsored by well-known industrial and agricultural organizations. An Almanac Brochure listing some 40 films is available to television station personnel upon request on a letter head from Dept. MA, Modern Talking Picture Service, Inc., 1212 Ave. of the Americas, New York, N.Y. 10036.

The WX-30654 SEC TV camera tube, a scaled-up version of the first commercial SEC tube introduced early in 1968, is described and illustrated in Bulletin TD 86-820, available from Westinghouse Electronic Tube Div., P.O. Box 284, Elmira, N.Y. 14902. The bulletin describes the principle of Secondary Electron Conduction and also includes performance curves for spectral response and sensitivity, light transfer, gain control, resolution, lag, point source imaging, integration and storage, uniformity and distortion, and picture quality.

An SEC television camera system designated the STV-606 is illustrated and described in Bulletin DB 95-154 available from Video Information Dept., Westinghouse Specialty Electronics Div., P.O. Box 8606, Pittsburgh, Pa. 15221. The bulletin gives a general description of the camera system and its applications and outlines specific features including automatic gain control, solid-state circuitry, 500-line resolution, and operation down to 5 by 10⁻⁶ fc.

More than 100 cathode-ray tubes for industrial and military display applications are described in a 16-page quick reference guide (B-9473) available from Westinghouse Electronic Tube Division, P.O. Box 284, Elmira, N.Y. 14902. The guide contains sections describing high-resolution CRT's; ruggedized tube, yoke and shield packages; electrostatic focus and deflection CRT's and special tube and component assemblies. It also gives tube base diagrams and a list of technical literature available from the Division.

The SEC camera tube, designated WL-30691, is described in Bulletin TD 86-817 available from Westinghouse Electronic Tube Division, P.O. Box 284, Elmira, N.Y. 14902. The bulletin describes the principle of Secondary Electron Conduction and includes performance curves for spectral response and sensitivity, light transfer, gain control, resolution, lag, point source imaging, integration and storage, uniformity and distortion and picture quality.

The Westinghouse Silicon Power Transistor handbook is available from Westing-

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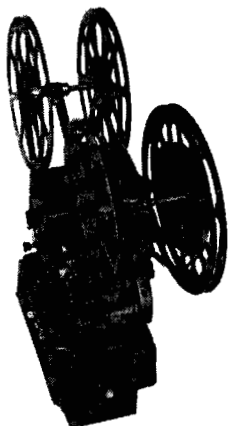
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house Semiconductor Division, Youngwood, Pa. 15697. It is priced at \$2.00. The book contains 270 pages. It is ring-bound and is illustrated with charts, graphs and drawings. It is aimed especially at design engineers active in the development of advanced circuits. Its purpose is to aid the designer in the proper selection and application of silicon power transistors. The circuits presented in the handbook illustrate a wide variety of power transistor applications. Emphasis is on circuit design principles and circuit analysis encountered in advanced design. Typical chapters include: Cooling Power Transistors; Power Switching; Transistor Inverters; Linear Appliances; High Frequency Measurements and Specifying Transistor Reliability.

Slow-scan vidicon camera tubes are discussed in Bulletin TD-86-855 available from Westinghouse Electronic Tube Division, P.O. Box 284, Elmira, N.Y. 14902. The bulletin describes vidicons for industrial and military applications. Technical information is given on sensitivity, resolution, dark current leakage, residual signal, target voltage and scanning. Response curves and schematics for vidicons with magnetic, electrostatic and hybrid guns are given.

The Ampex CC-327 closed-circuit studio TV camera is illustrated and described in Brochure No. V67-15 available from Ampex Corp., Consumer and Educational Products Div., 2201 Lunt Ave., Elk Grove

Village, Ill. 60007. The viewfinder camera is designed for convenient multi-camera operation.

Model AA-620 audio/amplifier/speaker system is described in a data sheet (Bulletin A304) available from Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. The solid-state system with a new output specification of 15-W is designed for use with professional audio equipment.

The AG-500 portable professional audio recorder is illustrated and described in Bulletin A287 available from Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. The AG-500 is designed for studio or remote control operation for broadcast, educational, medical and industrial use. The bulletin also describes the AA-620 speaker/amplifier and AM-10 stereo/mono mixer.

The Ampex VR-7800 solid-state portable closed-circuit color video-tape recorder is illustrated and described in Brochure No. V67-14 available from Ampex Corp., Consumer and Educational Products Div., 2201 Lunt Ave., Elk Grove Village, Ill. 60007. The recorder features electronic editing, color recording and playback.

The 1968/69 16mm Entertainment Films Catalog is available from Rank Film Library, 1 Aintree Rd., Perivale, Middlesex, England. It is priced at 5 s. The library contains more than 500 feature films and

more than 1,200 cartoons and shorts. The new catalog lists 49 new feature films and 33 new shorts and cartoon films. Three new children's feature films from the Children's Film Foundation are listed.

Instruments used in frequency domain measurements are described and illustrated in a booklet available upon request from Inquiries Manager, Hewlett-Packard Co., 1501 Page Mill Rd., Palo Alto, Calif. 94304. The booklet is intended for design engineers. The illustrated booklet shows how measurements are made on oscillators, mixers, amplifiers, filters, modulators and networks.

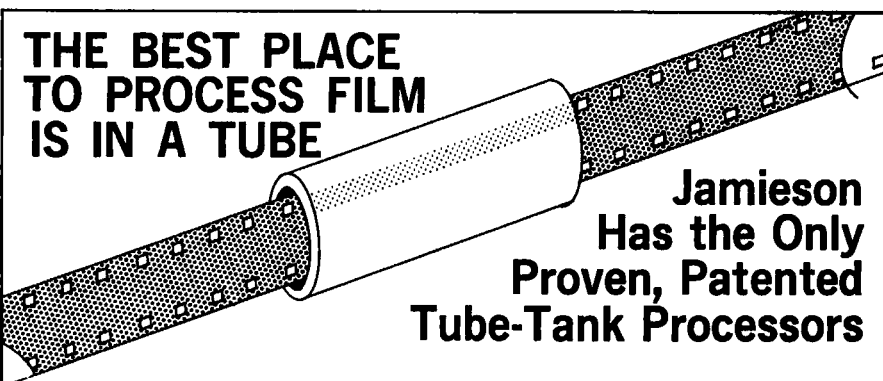
Audio-visual teaching aids for elementary sciences classes manufactured by D. C. Heath and Company and Macalaster Scientific Company, divisions of Raytheon Education Company, are described in an 18-page illustrated brochure available from D. C. Heath and Company, 285 Columbus Ave., Boston, Mass. 02116. The teaching aids include study projectuals, filmstrips and projection equipment designed to correlate any textbook used in grades one through six.

Two Focatron instruments for production alignment, quality control and optical measurement, Model P-122 and Model P-122R, are illustrated and described in a four-page technical brochure available from Photomechanisms Division, Inc., 15 Stepar Place, Huntington Station, N.Y. 11746. Both instruments detect image sharpness or locate the plane of best focus in various photographic activities. P-122 is a direct reading instrument. The P-122R is equipped with an x-y recorder to provide a permanent record copy of focus characteristics.

The Fall 1968 issue of the Motion Picture, TV and Theatre Directory is available from Motion Picture Enterprises Publications, Inc., Tarrytown, N.Y. 10591. It is priced at \$2.50. The 120-page Directory gives addresses and phone numbers of manufacturers, producers and production and laboratory services throughout the United States and Puerto Rico and in Canada, England, Portugal and Spain. Also listed are film and sound effects libraries. Equipments, such as cameras, projectors, lights, sound recording and audio-visual equipments available for sale or rental.

Sound Talk, a quarterly bulletin series, providing technical information on problems associated with professional tape recording, is available upon request from 3M Company, Magnetic Products Div., Market Services Dept., 3M Center, St. Paul, Minn. 55101. The series will deal with audible range magnetic tape recording. The initial issue covers "Design Considerations to Insure Interchangeability of Recording Tape." The 8½ by 11-in. pages are three-hole punched for binder insertion. The series is designed to provide permanent reference material for all broadcast and professional recording studios.

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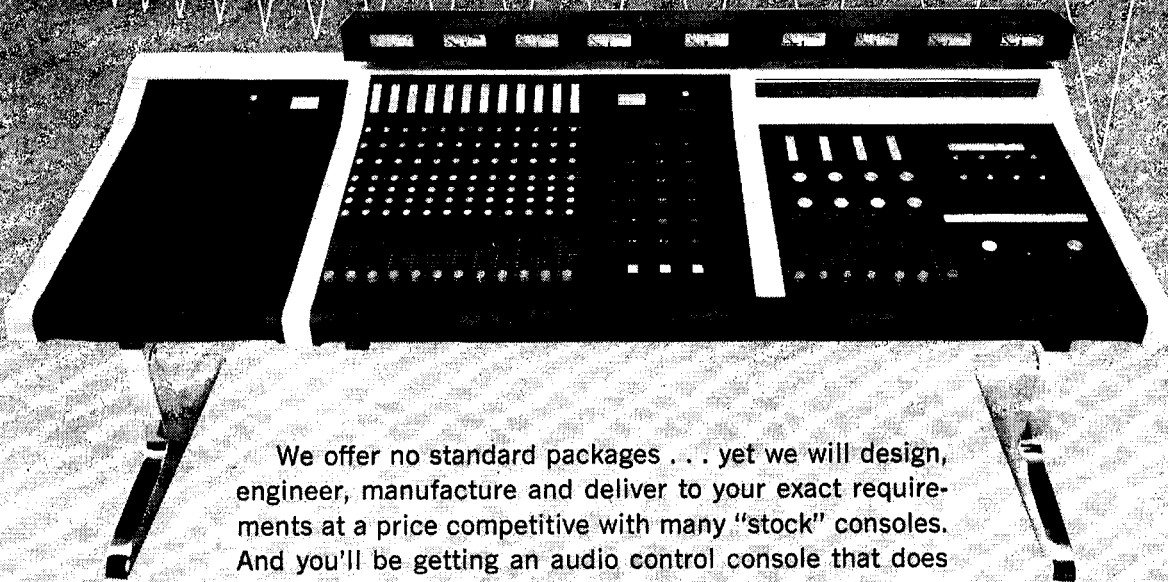
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described in a 32-page illustrated catalog available upon request from Calvin Cinequip, Inc., 1105 Truman Rd., Kansas City, Mo. 64106. Equipments include 16mm and 35mm cameras and accessories, lights, editing machines, projectors, and sound equipment. Available laboratory and producer services are also listed in the catalog.

Optical printers and special effects equipments and accessories are illustrated and described in data sheets available from Research Products, Inc., 716 North La Brea Ave., Hollywood, Calif. 90038. Available equipments include the Aerial Image Model 1002 Optical Printer designed to provide a complete optical printing system in either 35mm or 16mm or a combination of the two for color or black-and-white.

The High and Mighty, a brochure describing television transmitting antennas, is available upon request from General Electric, Visual Communications Dept., Electronics Park, Syracuse, N.Y. 13201. The brochure is illustrated in color.

Slide projectors, spotlights and accessories are illustrated and described in Catalog G6808 available from Genarco, Inc., subsidiary of Ribons Industries Corp., 15-58 127th St., College Point (Flushing), N.Y. 11356. The projectors have 3,000-W lamps (3,150 K) and operate from 115-V, 60 Hz, 30-A power. They are used for outdoor advertising, commercial art and stage settings, background effects for theaters and television, special lighting effects, and the like.

Sweep generators for testing TV tuners and circuits in the IF, VHF and UHF frequency regions are described in a 28-page illustrated catalog available from Telonic Instruments, 60 N. First Ave., Beech Grove, Ind. 46107. The catalog (No. 82) contains descriptions and specifications on basic sweep generator series, 1006, 1010 and 1011. Also described and illustrated are attenuators, birdy frequency markers, pulse frequency markers and several control systems including Telonic's Autotrack Automatic Tuning system.

The NC Flasher catalog lists hundreds of special-purpose items for technicians and hobbyists. Subscription price is \$1.00 a year (four issues) but a sample copy (Summer 1968 issue) is available without charge from National Camera, Inc., Dept. KR, Englewood, Colo 80110. The 48-page catalog lists electronic gear, optical test instruments, shop accessories and furnishing and numbers of tools and gadgets.

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 nine categories.

Acoustics

AD-663 904, *Growth of Noisiness for Tones and Bands of Noise at Different Frequencies*, J. E. Parnell et al, 88 pp. Presents

judgment tests to measure the growth of noisiness for tones and narrow bands of noise under various listening conditions. The growth of noisiness for a 1 kHz tone and an octave band of noise centered at 1 kHz were measured using both the adjustment method and a magnitude estimation method.

Communications

AD-666 540, *A Note on Multiple Access to Tactical Communication Satellites: Nets, Network Control, and Random Access*, T. G. Belden and J. W. Schwartz, 17 pp. Questions importance and desirability of random access for a communication satellite designed to service tactical communications.

AD-667 729, *A Method for Photographing Microwave With a Polaroid Film*, K. Iizuka, 30 pp. Utilizes selective development of film in accordance with the thermal image produced by the electromagnetic field. The method can be useful for preparing microwave holograms, and can be applied to mapping of temperature distribution in space.

N67-36634, *Ople Experiment*, C. Laughlin et al., 33 pp. Omega Position Location Equipment (OPLE) Experiment to demonstrate feasibility of using the Omega Navigational System in conjunction with synchronous satellites to establish a global location and data collection system.

PB-175 603, *Tabulations of VHF Propagation Data Obtained Over Irregular Terrain at 20, 50, and 100 MHz*, M. E. Johnson et al., 401 pp.

AD-653 098, *Antenna Unit and Signal Spectrum Analyzer*, S. N. Smilowitz, 99 pp. Gives design, development, and evaluation of two breadboard models capable of determining the predominant spectral frequency (in the range of 4 KHz to 18 KHz) of transient electromagnetic signals.

N68-10729, *A Space Communications Study*, K. K. Clarke et al., 107 pp. Final report of research conducted during Sept. 1966 through Sept. 1967. Part I discusses results of threshold extension studies; Part II describes development of PIB watertank channel simulator; Part III presents analysis of PSK digital signals transmitted through noisy media; Part IV shows the development of recursive detection, a different formulation of the classical problem of detecting signals in noise; and Part V describes the development of a wideband FM generator, the analysis of limiters for FM signals in SNR, and a statistical approach to multipath.

AD-655 119, *A Quantum Statistical Analysis of a Frequency-Modulated Laser Communication System*, N. F. Ruggieri, 86 pp. Determines the detection statistics for heterodyne and electric field detection of a frequency modulated laser beam. The detection statistics are used to define a measure of the communication system performance in terms of a signal-to-noise ratio.

Control Systems and Instrumentation

N67-37903, *Optical Beam Steering Device Final Report*, 15 pp. Describes an optical beam steering device for use in conjunction with lasers as a means of changing the direction of the laser beam in a controlled manner by an electrical command signal.

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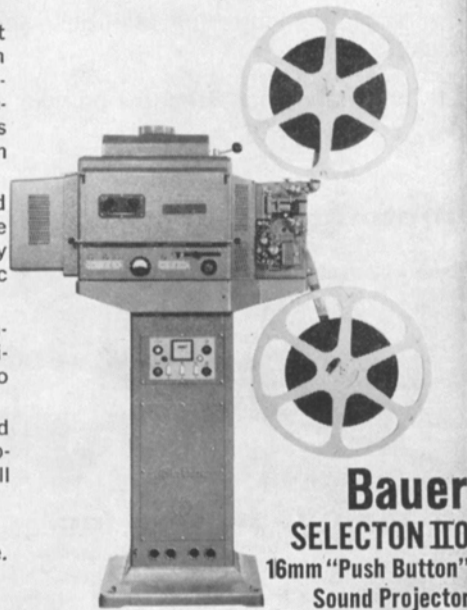
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