



Ultra-High-Speed Photography by K. R. Coleman has been reprinted from *Reports on Progress in Physics*, Vol. XXVI, pp. 269-305, 1963, by the Institute of Physics and the Physical Society, 1 Lowther Gardens, Prince Consort Road, London, S.W.7. The paper surveys and evaluates instrumental methods used in the field of ultra-high-speed photography, which, for the purposes of this paper, is roughly defined as photography with exposure times of less than 50 μ sec. The paper is mainly concerned with the use of a photograph as a piece of data, a measurement in an experiment, rather than its use as a recording medium as exemplified in the scientific film. Illustrated by photographs and diagrams and with an extensive bibliography, the paperbound publication provides in compact form a comprehensive "down-to-earth" reference for scientists and technicians. For example, in the section on *Mechanical Shutters*, the author states, "This type of shutter can be an embarrassment before and after firing and owners of adjacent instruments object to its presence. Despite this it is used regularly

and effectively by a great number of high-speed photography groups."

Eleven main topics are covered: Shutters; Light Sources; Flash Radiography; Cranz-Schardin Photography; Multiple Cameras; Framing Cameras With Moving Film; Rotating-Mirror Cameras; Image Dissection Methods; Image Tubes; Image Tubes as High-Speed Cameras; Ultra-High-Speed Photography as a Part of Physics."

Mathematics for Electronics, by Norman H. Crowhurst, is a recent (1965) publication of Howard W. Sams & Co., 4300 W. 62 St., Indianapolis, Ind. 46206. The book is divided into five sections which are arranged by increasing complexity of topics. Starting with Ohm's and Kirchhoff's laws, the text introduces selective networks, transfer characteristics, properties of coils and transformers, oscillators, feedback circuits, etc. The book is intended primarily for advanced technicians and engineers. It is priced at \$6.95.

Two other recent books published by Howard W. Sams & Co. include *Handbook of Algebraic & Trigonometric Functions*, by Allan Lytel, a book intended mainly for students and technicians whose work requires them to have a convenient reference of formulas and tables. It is priced at \$2.95.

Know Your Color TV Test Equipment explains how color-TV test equipment operates. The treatment is nonmathematical and does not require a background in engineering to be understood. The book is priced at \$2.50.

A new publication called simply "8" is a newsletter of 8mm film in education published by the Project in Educational Communication of the Horace Mann-Lincoln Institute of School Experimentation, Teachers College, Columbia University, New York 10027. On the editorial staff are: Joan Rosengren Forsdale, Editor; William Badgeley; Conrad Buckley; Judith Ehrman; Louis Forsdale; Carolyn Grinnell; Larry Litten; and John Swayze. The first issue of 8 is a 4-page illustrated leaflet containing an editorial, short features, columns, etc. In addition, a 4-page insert (without folios) entitled "8—A Point of View" is included. Photographs of children engaged in various educational activities accompany the text. For example, two fifth graders are shown, one of them blowing bubbles and the other photographing the bubbles to study light broken into the colors of the spectrum.

Reason for the newsletter, as explained by the Editor, is because "... film is beginning to move into a position beside print as an important medium in education. We trumpet the 8 because it is the only presently extant means to expand and deepen educational uses of the moving image."

The Audio-Visual Equipment Directory, 11th Edition, is available from National Audio-Visual Association, 1201 Spring St., Fairfax, Va. It is priced at \$6.00. More than 2,000 different models of audio-visual equipments are described and illustrated in the 344-page, 8½ by 11-in., paperbound directory. Names and addresses of manufacturers and dealers are given in a section called "Where to Buy It." Illustrations of equipments include 825 photographs. The 1965 Directory indexes sound motion-picture projectors by model, serial number and date of manufacture. Charts giving information on projection lamps are included.

Advance printing of invited papers and summaries of nearly all other papers presented at the 1964 SPSE Symposium on Unconventional Photographic Systems is available from SPSE Publications Dept. S64, Box 1609 Main Post Office, Washington, D.C. 20013, at a price of \$4.00 to SPSE members and \$5.00 to nonmembers with 10% discount for prepaid orders. The book features state-of-the-art reviews by noted scientists. Fields covered and the authors: Thermography, Robert Gold; Electrostatic Photography, Frederick A. Schwartz; Photochromism, Helmut Schwab; Diazotypy, David P. Habib; Photopolymers, Steven Levinos. In addition, the book contains summaries of other papers in these fields as well as papers on Engineering and Instrumentation for Unconventional Systems, Silver Halides, and Photosolubilization of Silver Salts.

The EFLA Film Evaluation Guide is scheduled for September publication by Educational Film Library Assn., 250 W. 57 St., New York, N.Y. 10019. The 550-page guide contains listings with critical annotations of nontheatrical films reviewed by EFLA committees in a continuing program initiated in 1946. The book will con-

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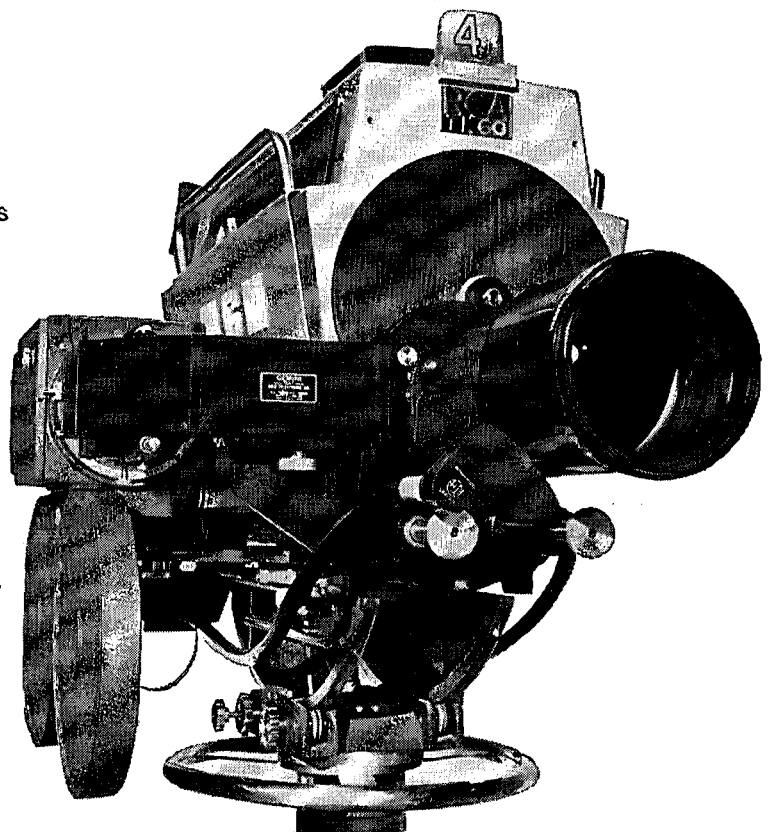
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tain an Alpha main listing, an Alpha list of subjects, and a title list arranged by Dewey Decimal classifications. Entries are rechecked to bring bibliographic information, such as the address of a film's current distributor, up to date. Each film listing will include running time; sale price; date of release; notes on subject areas, age level, and uses indicated; a synopsis; and evaluative comment; and technical and summary ratings. Price of the guide will be \$30, or \$25 to EFLA members. Pre-publication price (before September 7) is \$25 and \$20, respectively.

Selected List of Catalogues for Short Films and Filmstrips, 1963 edition, was published by Unesco (1965) as No. 44 in

the series of Reports and Papers on Mass Communications issued by Unesco's Mass Communication Techniques Div. Report No. 44, as well as preceding ones in the series, are available in the United States from Unesco Publications Center, 317 E. 34 St., New York, N.Y. 10016 and Columbia University Press, 2600 Broadway, New York, N.Y. 10027. The *List of Catalogues* is divided into three parts. Part I contains a selection of catalogs which list national productions. Part II indicates sources of information concerning the availability of films in countries from which no national catalogues could be obtained. Part III is a guide to catalogues dealing with individual subjects.

Preparation of 16mm Films for Printing

is an illustrated folder containing Colburn Laboratory's specifications for marking work prints and originals, preparing leaders and setting up original 16mm A&B rolls. The folder is available from Geo. W. Colburn Laboratory, Inc., 164 N. Wacker Dr., Chicago, Ill. 60606. Step-by-step illustrations show methods of marking work prints and originals to indicate effects and the preparation of 16mm head and tail printing leaders. The folder also explains editing and preprint recommendations for 16mm original film including pictured illustrations of the checkerboard technique.

Home movie releases in 8mm are listed and described in a catalog available from Columbia Pictures 8mm Home Movie Sales Div., 711 Fifth Ave., New York, N.Y. 10022. Several feature films are available in 8mm. Other unusual categories include the 3-D Series — three-dimensional movies in 8mm; cartoons; and a series called *History in the Making* which includes films of such contemporary events as the Ranger Moon Shot.

Two low-cost grating infrared spectrophotometers are described in an illustrated 20-page booklet (L-30) available from: Instrument Group, Perkin Elmer Corp., Main Ave., Norwalk, Conn. Specifications of the instruments, Models 237B and 337, are detailed with illustrated examples of instrument resolution, range and speed. The booklet summarizes infrared applications, basis theory, sample preparation, instrument operation, and performance criteria.

Specialized manufacturing services are described in an 8-page brochure available from Avco/RAD Specialized Manufacturing Services, Lowell Industrial Park, Lowell, Mass. 01851. New techniques developed by the firm for machining and fabricating plastics and high-temperature materials as a part of the Atlas, Titan, Minuteman and Apollo programs are described. The firm's "under-one-roof" capabilities include service of experienced engineers and technicians supported by advanced equipment and facilities. These include new modularized tooling techniques, computerized production control, all-conditions environmental testing laboratory and other advantages.

Kinlogic Corp.'s revised bulletin 702A describes instrumentation-type magnetic tape recording equipment for space, oceanographic, and other scientific fields. General purpose, extreme environment, special purpose and data logging types which handle from 125 to 4,750 ft of magnetic tape are described. Associated record and playback amplifiers suitable for wide deviation FM recording, digital and direct recording are also described. The bulletin is available from Kinlogic Corp., 29 S. Pasadena Ave., Pasadena, Calif.

An illustrated leaflet (#800-21) on the Heavy Duty "Sunlight" solid-state power unit for use with the Ascor series 800 Sunlight equipment is available from Ascor Marketing Dept., 2035 N.E. 151 St., N.

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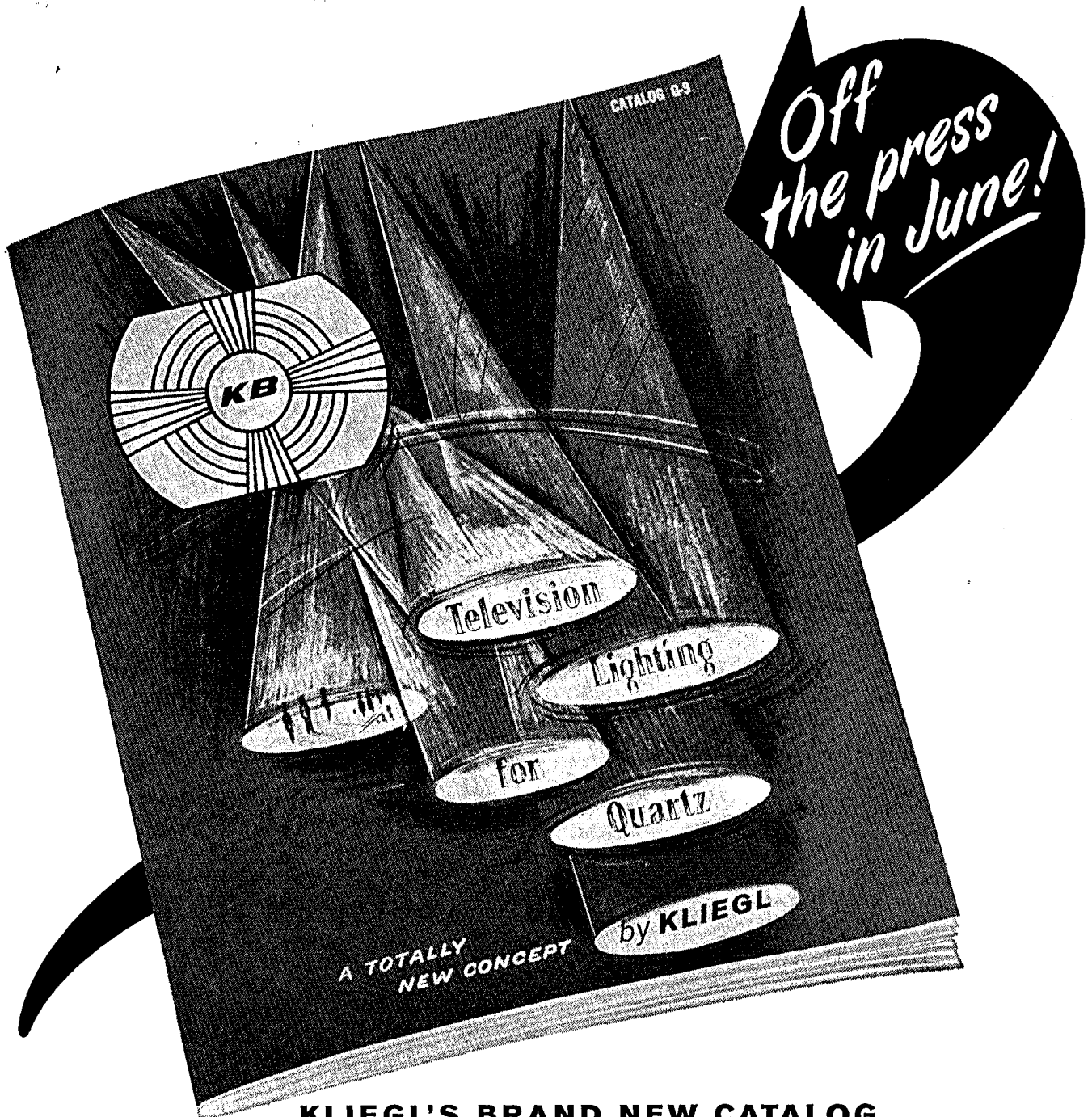
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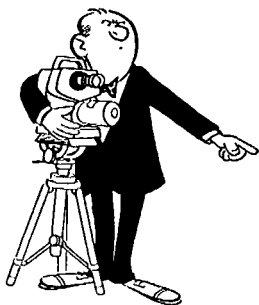
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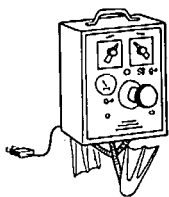
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Miami Beach, Fla. 33162. The leaflet gives specifications of the A806 Super Master Power Control Unit which has recently been redesigned, using all new solid-state material and transistors. The unit, which formerly weighed 355 lb, now weighs 95 lb and the price has been reduced from \$3,500 to less than \$1,500.

A new film process called the Spray Labmaster is described in a 4-page illustrated brochure available from Houston Fearless Corp., 11801 W. Olympic Blvd., Los Angeles, Calif. 90064. The brochure illustrates and describes in detail the machine's structure, operation and capabilities. Built for speed and economy it is reported to process black-and-white negative/positive film at a speed of 200 ft/min.

The VR-303 Videotape television recorder and Videotrainer closed-circuit television recording system are described in an illustrated brochure (No. 2229) available from Ampex Corp., Mail Stop 6-1, 401 Broadway, Redwood City, Calif. Series 143 tape, designed for use with the VR-303, is described in Bulletin No. 2246.

The Hycam 16/8mm high-speed camera (*Journal*, p. 286, Mar. 1965) is described in detail in a data sheet (Form HY-964) available from Red Lake Laboratories, Inc., 2971 Corvin Dr., Santa Clara, Calif. 95002. Exclusive features of the new model are described and basic operating features identical with those of the earlier Hycam are noted.

New designs for film handling mechanisms are illustrated and described in a 4-page brochure available from Richardson Camera Co., 2201 West Desert Road, Phoenix, Ariz. The brochure also announces establishment of a new plant for production of precision optical and mechanical devices. The plant, situated on a 5½-acre site, covers 18,000 sq ft. The firm has also announced plans for construction of a second building to expand its optics shop and film-reader assembly operations.

Incremental digital tape recorders (Series PI-1107, 1157 and 1177) are described in an 8-page illustrated brochure available from: T. C. Pickett, Precision Instrument Co., 3170 Porter Dr., Palo Alto, Calif. Specifications are given on 200 and 556-bit/in. packing density models, write only and read/write versions and portable or rack-mounted configurations. The brochure also contains circuit diagrams.

Replacement reflectors are described in a brochure available from Strong Electric Corp., 79 City Park Ave., Toledo, Ohio 43601. The brochure explains the use of second surface rear silvered reflectors and also the first surface (front-coated) cold type.

Broadcast headsets designed to meet the needs of cameramen, boom-men and commentators are described and illustrated in a 4-page leaflet available from Roanwell Corp., Roanwell Bldg., 180 Varick St., New York, N.Y. 10014. A price list is

included with prices ranging from about \$144 to \$54 depending on the type of headset.

The 1964-65 Directory of Directors, published by Screen Directors International Guild (SDIG), 250 W. 57 St., New York, N.Y. 10019, list more than 600 motion-picture directors engaged in all types of production ranging from feature films and television shows to spot commercials, documentaries and business films. Also listed are assistant directors, production assistants, script supervisors and production secretaries. Included are addresses, affiliations and other relevant information. The directory also includes a summary of the current SDIG Basic Agreement, a listing of all film labor unions in New York and Chicago, information on how to obtain permits for location photography in metropolitan New York and an expanded list of SDIG Area Representatives. SDIG published the directory as a service to the industry for use as a convenient reference for producers, advertising agencies, sponsors and others.

Colburn Comments on Sound Slidefilms is a 12-page illustrated booklet available from Geo. W. Colburn Laboratory, Inc., Dept. SS4, 164 N. Wacker Drive, Chicago, Ill. 60606. The booklet discusses non-moving projected pictures in terms of use and techniques. A glossary of basic terms relating to slidefilms is included.

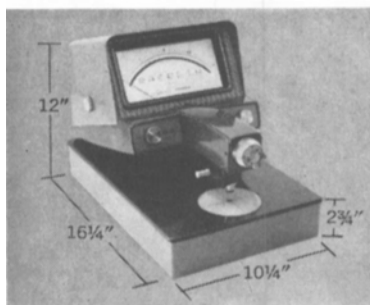
The Spring 1965 edition of Motion Picture, TV and Theatre Directory for services and products is available from Motion Picture Enterprises, Inc., Tarrytown, N.Y. 10592. It is priced at \$1.00. The 80-page directory contains extensive listings of laboratory and production services throughout the United States and Canada and also contains information as to where various types of equipments can be found, including sound and kinescope recording equipment, projection and lighting equipments and smaller items such as tape reels and cases. There is even a section that lists availability of trained animals for rent. The directory is published semi-annually.

Index to NASA Tech Briefs (Issue No. 1, Order No. N65-15153N), a guide to technological innovations derived from the space program, is available from the Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151. The publication contains a listing of the citations and abstracts of all NASA Tech Briefs published to January 1965. The 54-page index includes a subject index and cross references to originator and Tech Brief numbers. The Index is priced at \$1.00. Individual Tech Briefs are available from the Clearinghouse at 15 cents each. They describe items selected from NASA's advanced technology that may be of particular interest to commercial and other non-aerospace applications. They include products or devices, manufacturing processes and techniques, and materials. Tech Briefs are distributed monthly and may be purchased on a calendar-year subscription basis beginning (retroactively) with the January issue. Prices for individual category subscriptions

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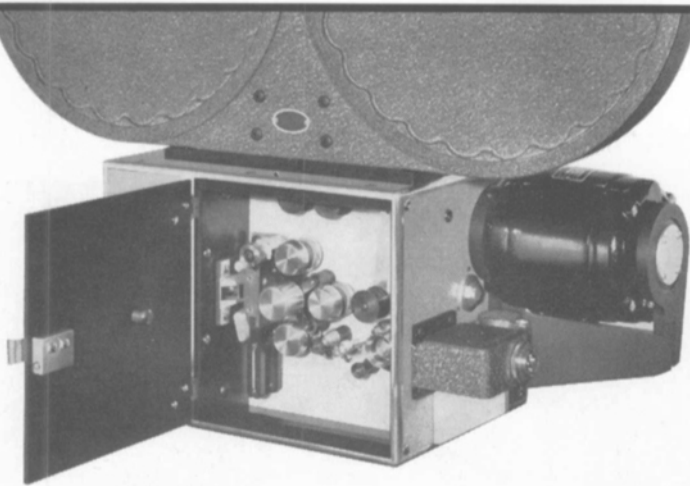


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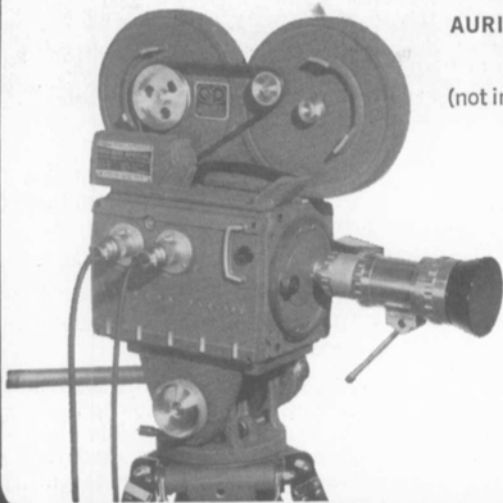
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are: Electrical-Electronic, \$6.00; Energy Sources, \$2.50; Materials (Chemistry), \$5.00; Life Sciences, \$2.50; Mechanical, \$6.00. Subscriptions for all categories are \$20 a year. All *Tech Briefs* issued in 1964 (221 total in all categories) are available from the Clearinghouse at a special price of \$10.

Also available from the Clearinghouse is *Guide to the Literature of Engineering, Mathematics, and the Physical Sciences* (Order No. AD 608 053N) at a price of \$3.00. Compiled by the Applied Physics Laboratory of Johns Hopkins Univ., it contains references to published material from 1953 through 1963.

Microelement Inductors, Task 30, Micromodule Program Extension II (Order No. AD 610 628N), is a report prepared for the Army by RCA Communications Systems Div., Camden, January 1965. The 325-page report is priced at \$7.00 and is available from the Clearinghouse for Scientific and Technical Information, U.S. Department of Commerce, Springfield, Va. 22151. According to the report, production of a complete range of micromodule inductors for various equipment requirements has been realized by repackaging existing miniature designs and designing new devices. One of the basic design restraints placed on the inductors was the minimization of external magnetic fields. This was necessitated by the close proximity of inductive elements that would be encountered in a micromodule or between adjacent micromodules. Toroidal construction and ferrite technology were used to overcome this problem.

Other reports available from the Clearinghouse include *Final Report on Production Engineering Measure for Rolled Ceramic Dielectric Capacitors* (Order No. AD 610 803N), a report prepared by Aerovox Hi-Q Div., Olean, N.Y. The 56-page report was prepared for the Army, December 1964. It is available from the Clearinghouse at a price of \$3.00.

Transmittance of Optical Materials at High Temperatures in the 1 to 12 Micron Range (Order No. AD 609 036N) is a 33-page report by the Naval Ordnance Test Station, China Lake, Calif., October 1964. It is priced at \$2.00.

The Government-Wide Index to Federal Research and Development Reports, a comprehensive, unified index resulting from machine merger of input from the major Federal research and development agencies, is available from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The price is \$10 for a one-year subscription of 12 issues (plus \$2.50 for foreign postage). Single issues are available at a price of \$1.25. The Index is a project of the Clearinghouse for Federal Scientific and Technical Information, U.S. Department of Commerce. Computer services have been made available by the Aerospace Research Applications Center at Indiana University. The index is compiled from machineable document records prepared by the Atomic Energy Commission, NASA, Department of Defense and the Clearinghouse for their own document announcement journals, thus avoiding duplication of data preparation.

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