

# Mole-Richardson SOLARSPOTS



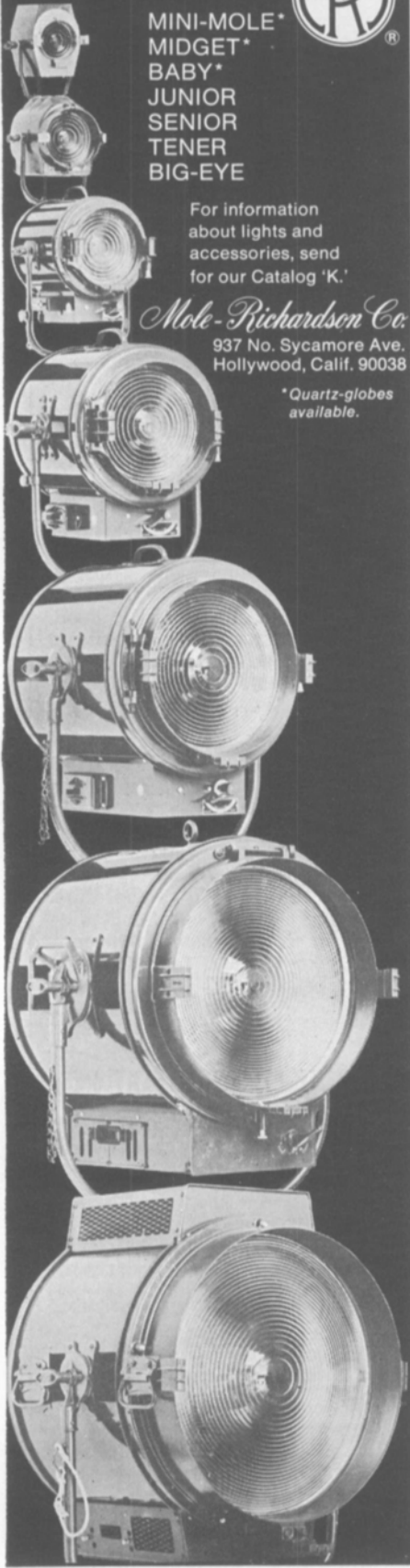
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## BOOKS BOOKLETS AND BROCHURES

The publications listed below are available from Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151.

AD-633 859, *Broad-Band VLF Transmitting Stagger-Tuned Dipole*, E. W. Seeley and D. A. Wulffing. 27 pp. Price \$2.00 (microfiche 50¢). A multiconductor, broadband, very low frequency, horizontal-dipole transmitting antenna has been built in Hawaii by the Naval Ordnance Lab.

AD-638 034, *Optimization & Synthesis of Antenna Rays*, S. L. Shih. 173 pp. Price \$5.00 (microfiche \$1.00). Describes a new method by which the phase shifts of the elements required for the minimum sidelobe level are determined in one step for the reduction of sidelobes.

NBS TN-339, *Observed Phase-Front Distortion in Simulated Earth-to-Space Microwave Transmission*, H. B. Janes and M. C. Thompson, Jr. 100 pp. Price 50¢ (microfiche 75¢). Discusses an experimental study made of the time and space statistics of the phase-front distortion of microwave signals sent from a ground terminal to an elevated terminal.

NASA CR-62033, *Guide to the Processing, Storage, and Retrieval of Bibliographic Information at the NASA Scientific and Technical Information Facility*, W. T. Brandhorst and P. F. Eckert. 156 pp. Price \$3.25 (microfiche \$1.00). Describes document processing techniques and computerized information storage and retrieval methods used by NASA's S&TIF.

AD-634 304, *Word Recognition Computer Program*, B. Gold. 27 pp. Price \$1.00 (microfiche 50¢). MIT's Research Laboratory of Electronics reports encouraging results in automatic word recognition. The report indicates the scope of automatic speech recognition, technological aims and other aspects of this complex problem. Talking to a computer seems to be the most promising immediate application of a word recognizer.

AD-633 727, *Study of a Computer Directly Implementing an Algebraic Language*, T. R. Bashkow et al. 171 pp. Price \$5.00 (microfiche \$1.00). The Columbia University Dept. of Electrical Engineering describes a system design for a computer capable of direct execution of FORTRAN source statements.

N66-19758, *Telemetry Data Frame Readout System*, C. E. Cote. 10 pp. Price \$1.00 (microfiche 50¢). A cathode-ray type of readout system designed by the Space Agency satisfies the need of modern digital telemetry systems for improved methods of monitoring large quantities of digital information during the design and testing phases of many programs.

AD-464 392, *High-Density Digital Recording on Magnetic Tape*, P. F. Dingwall and G. R. Labrum. 36 pp. Price \$2.00 in hard copy only. Discusses the problems encountered in high area density digital recording on magnetic tape; examines some aspects of pulse recording; describes a system which offers advantages at high packing densities.

TT-66-32406, *Electric Computers*, L. N. Korolev, et al. 87 pp. Price \$3.00 (microfiche 50¢). Translation of Russian papers presented at seminar of the Div. of Structural and Logic Circuits, Institute of Precision Mechanics and Computer Engineering Academy, Academy of Sciences USSR, Moscow, 1965.

TT-636-32385, *Reading Mechanics*, M. L. Avrukh, et al. 259 pp. Price \$6.00 (microfiche \$1.25). Discusses problems of automatic reading of text for inputting alphanumeric information into electronic computers.

AD-635 473, *Grammar and Lexicon for Basic JOVIAL*, M. H. Pearlstein. 105 pp. Price \$4.00 (microfiche 75¢). A complete specification manual of the Basic JOVIAL version of the JOVIAL Language.

AD-637 061, *Solving Engineering Problems by Digital Computer*, B. M. Kagan and T. M. Ter-Mikaelyan. 628 pp. Price \$9.40 (microfiche \$2.40). Fundamental information on the operating principles of automatic digital computers, programming techniques, and the potential applications and methods for engineering studies and calculations.

NASA SP-3028, *Space Measurements Survey—Instruments and Spacecraft*, H. L. Richter, Jr., Ed. 1013 pp. Price \$6.00 (microfiche \$4.24). Summarizes the characteristics of much of the scientific instrumentation carried in orbital and deep space vehicles in launchings from October, 1957, through March, 1965.

A new 95-page book describing a modular blower-filter unit for laminar flow clean rooms has just been published by Agnew-Higgins, Inc., 7532 Anthony Ave., Garden Grove, Calif. 92641. The book, "The V8 Story," was written by Boyd Agnew who speaks from his experience dating from 1961. The book contains 50 pages of illustrations in the form of photographs, charts and diagrams.

Chapter I deals with the background history of the Model V8 Laminar Flow Blower-Filter Module and how it revolutionized clean room design. Chapter II contains a description of the V8. Chapter III describes how it is used in laminar flow clean rooms. Chapter IV is a complete specification for the construction of a laminar flow clean room including all the associated hardware and instrumentation to equip an aerospace-type cleaning facility. Chapter V describes the use of the V8 as a downflow module. Chapter VI contains the actual case histories, told in the words of the men who designed and built the clean rooms themselves, of how factory space was converted through the use of the V8 into Class 100 Laminar Flow Clean Rooms.

A complimentary copy of "The V8 Story" may be obtained by writing on your company letterhead to Agnew-Higgins, Inc., address above.

The 1967 edition of the *Laser Focus Marketers' and Buyers' Guide* is available from Laser Focus, Advanced Technology Publications, Inc., 246 Walnut St., Newtonville, Mass. 02160. The guide is part two of the two-part January issue of *Laser Focus*. The guide presents market analyses, rosters of manufacturers, R&D, users,

consultation services, publishers and marketing representatives, and a product listing. The guide is 120 pages and is available at \$8.00 per copy.

**The Belgian Film Yearbook 1965/66** is available from Jacques Ledoux, Curator, The Royal Film Archive of Belgium, Palais des Beaux-Arts, Ravenstein, Brussels 1, Belgium, at a price of 100 Belgian francs (\$2.00). The yearbook (in Flemish and French) contains 333 pages of which 86 are devoted to legal texts and statistics.

A 32-page technical guide, B9234, representing the most complete up-to-date listing of hundreds of industrial and power tubes, is available from the Westinghouse Electric Corp. for 50 cents. The booklet features an easy-to-use interchangeability listing that covers the most significant American electronic tube manufacturers. It contains specifications, base diagrams and electrical characteristics for 740 tube types in 19 basic categories. Helpful technical information is provided about the function, construction and application of each tube category. For a copy of booklet B-9234, write to Westinghouse Electric Corp., Gateway 3, 19N, Pittsburgh, Pa., Att: W. J. Curran.

**The Summary of Engineering Research 1966**, compiled and edited by Ursula Weise, is available from Office of Engineering Publications, College of Engineering, University of Illinois, Urbana, Ill. (Price, \$5). The 215-page volume is illustrated and describes more than 600 research projects conducted by the various Engineering Departments within Illinois University's College of Engineering during the 1965-66 school year. Among the Engineering Departments are: Aeronautical and Astronautical; Agricultural; Ceramic; Civil; Electrical; General; Mechanical and Industrial; Mining, Metallurgy and Petroleum; and Nuclear. The College also includes departments of Physics, Theoretical and Applied Mechanics; coordinated Science Laboratory; Materials Research Laboratory; and Computer Science. As one project, the Department of Aeronautical and Astronautical Engineering together with the Department of Mechanical and Industrial Engineering built a low-density, high enthalpy, hypervelocity wind tunnel for undergraduate instruction. More than \$15 million is spent each year to support research activities of 650 faculty and 1,200 graduate students.

**Standards and Practices for Instrumentation**, 2d ed., Ed., James E. French, is available from Instrument Society of America, Publications Dept., 530 William Penn Place, Pittsburgh, Pa. 15219, at a price of \$30 (\$20 to ISA members). The 550-page volume contains 33 complete ISA Recommended practices and abstracts of more than 500 instrumentation and control standards developed by 24 technical societies (including SMPTE). Standards developed by British Standards Institution, Canadian Standards Association, International Electrotechnical Commission, and the International Organization for Standardization are also included. More than 75 subject areas, ranging from Aircraft In-

strumentation to Vacuum Technology, are covered.

**A 48-page data book and specification sheets for 29 films** are contained in a packet (Kodak Publication No. H-1) available from Eastman Kodak dealers or Motion Picture and Education Markets Div., Eastman Kodak Co., Rochester, N.Y. 14650, at a price of \$1.25. The data book is the 4th edition of *Eastman Kodak Motion Picture Films for Professional Use* and has been extensively revised. New information includes a brief explanation of the modulation-transfer function and a section on processing formulas recommended for black-and-white films. The specification sheets contain information on camera materials, duplicating films, sound recording and TV recording films and release print films.

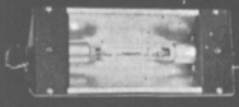
**Designers Handbook**, a 36-page illustrated booklet on magnetic shielding in low-frequency applications, is available without charge from Westinghouse Electric Corp., Materials Manufacturing Div., Blairsville, Pa. 15717. The booklet contains formulas, graphs, diagrams and tables, discusses theory and presents practical tips for designing and evaluating magnetic shielding. Topics include design parameters; choice and comparison of materials; cylindrical, conical, multiple (nested) and wraparound shields; heat treatment and shield evaluation.


**The Hipernom alloy** for magnetic shielding and laminations is described in an 8-page illustrated brochure available from Westinghouse Electric Corp., Materials Manufacturing Div., Blairsville, Pa. 15717. Basic physical, mechanical and magnetic properties of the alloy are described. Included is a table listing a number of material applications together with the specific properties which make the alloy appropriate for each use.

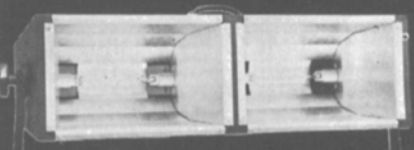
**Films produced by U.S. Government agencies** are listed in a 52-page catalog available from Du Art Film Laboratories, Inc., U.S. Government Film Service, 245 W. 55 St., New York, N.Y. 10019. Films may be purchased from Du Art subject to certain restrictions. For example, films produced by the Department of State may be exhibited only within the United States. A number of Department of Defense films, available to approved purchasers, are not listed in the catalog because of the vast amount of subject matter. Other agencies whose films may be purchased from Du Art include Office of Education, Public Health Service, Veterans Administration, National Gallery of Art, Department of Agriculture, Department of Labor, Post Office, Department of Health, Education and Welfare, and Office of the Secretary.


**The MA-2A and Ma-7A** all-solid-state television relay systems are described in an 8-page illustrated brochure available upon request from Microwave Associates, Inc., Burlington, Mass. The systems are lightweight and compact and are used for such applications as studio transmitter color link service, intercity color TV relay or TV pickup outside broadcast.


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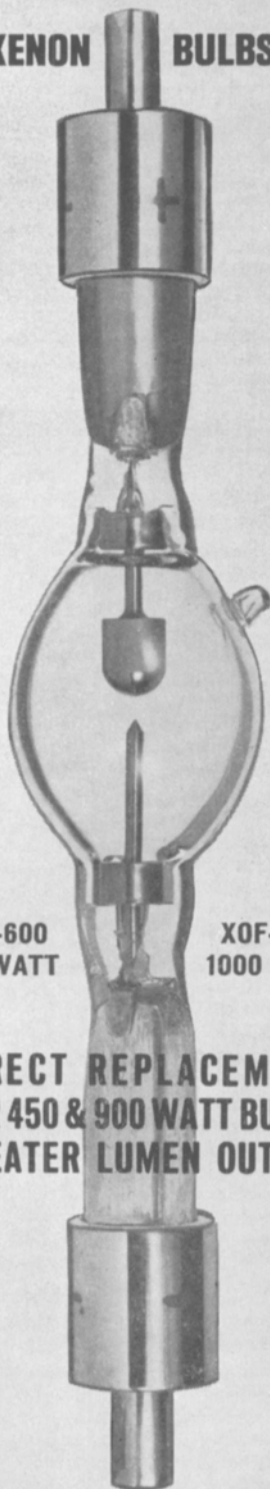
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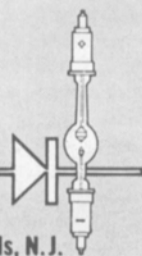
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**Eighteen tips on how to extend the life of video tape** through proper handling and storage are given in Ampex Bulletin No. T 059, available from Ampex Corp., Mail Stop 7-14, 401 Broadway, Redwood City, Calif. 94063. The bulletin is designed so that it can be hung on a wall to serve as a reminder.

**A Television Studio Lighting Layout Form** is available from Lighting & Electronics, Inc. 423 South Broadway, Yonkers, N.Y. 10705. The form can be filled in with pertinent information and mailed back to the firm for preparation of a complete studio lighting proposal based upon the information provided.

**The Ferranti-Weircliffe Magnetic Tape Bulk Erasers** are illustrated and described in a 4-page leaflet available from Ferranti Electric, Inc., East Bethpage Rd., Plainview, N.Y. 11803. The Model 8 eraser is designed to degauss tapes up to 2 in. in width and reels up to 14½ in. in diameter.

**New literature from Ampex Corp.**, 401 Broadway, Redwood City, Calif. 94063: Specifications, features and applications of Ampex VR-1100E and VR-1200E compact broadcast video-tape recorders are given in Ampex Bulletin No. V-069. A description of features and a list of prices of 142 Series video tape for use with VR-1500 and VR-660 Series closed-circuit video-tape recorders is presented in Ampex Bulletin T-107. Brochure No. A134 is a six-page illustrated brochure listing features, specifications and applications of the new AG-440 Series professional audio recorders.

**A four-page leaflet** describing the Andrews Quick-Erect Tower is available from Andrews Towers, Inc., 1420 Layton Ave., Fort Worth, Tex. The tower is made of aluminum and can be transported by tractor-trailer to any accessible location where it can be erected to a maximum height of 300 ft by a five-man team within about four hours.

**An illustrated folder** describing the Cine-meccanica C 65 transistorized sound system and its components is available from Rank Audio Visual Ltd., Woodger Rd., Shepherds Bush, London, W.12, England. The working sections of all units of the system have been designed as plug-in modules. The modules can be interchanged by the theater staff if an emergency should occur. The module design also permits the construction of sound systems to suit individual theater requirements. The system has been installed in a number of theaters in England and also in the Hollywood Cinema, Bangkok, Thailand. Installations have also been ordered for theaters in New Zealand, South Africa and Canada.

**The Mighty Mite**, a xenon arc lamp system for all 16mm projectors using carbon arcs, and some equipped with an incandescent light source, is described in a 4-page illustrated brochure available from Strong Electric Corp., 456 City Park Ave., Toledo, Ohio 43601. The system is produced in three wattages, 450, 900 and 1,600, and in-

cludes the lamphouse, silicon transformer-rectifier power supply and bulb.

**The Telonic 1967 Catalog** lists and describes sweep generators and accessories produced by the firm's Instruments Division. The 64-page catalog contains an Application Section which gives information on swept frequency measurement. The catalog (No. 70) is available from Telonic's Marketing Dept., 60 N. First Ave., Beech Grove, Indiana 46107.

**The Westinghouse Electronic Tube Guide** (7th Ed.) (Booklet SA 9675) is available from Westinghouse Electric Corp., Gateway Center 3, 19N, EC&SP Market Communications Dept., Pittsburgh, Pa. (Att. Walter Curran) at a price of \$1.25. The 182-page, ringbound booklet contains essential data on all types of receiving and TV picture tubes used in communications and industrial applications. Included is useful technical information such as characteristics, substitution lists and base diagrams for all tube types.

**The AG-300 recorder for master tape recording** is described in an 8-page illustrated brochure (No. A063) available from Ampex Corp., Mail Stop 7-14, 401 Broadway, Redwood City, Calif. 94063. The recorder is an advanced solid state version of the 300 series master recorder.

**The EF-100 special effects generator and 4-channel video switcher** is described and illustrated in Bulletin No. V102 available from Ampex Corp., Mail Stop 7-14, 401 Broadway, Redwood City, Calif. 94063. The unit is used for closed-circuit and broadcast television.

**The VR-660B video-tape recorder** is described in Brochure No. V008, available from Ampex Corp., Mail Stop 7-14, 401 Broadway, Redwood City, Calif. 94063. The 6-page brochure is illustrated with photographs and diagrams. The portable recorder is used for broadcast and closed-circuit television.



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## Positions Wanted

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