

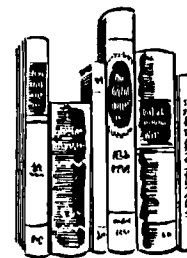
with headquarters at the firm's Southwest District Office in Dallas. In his new position he will handle general photographic accounts in Texas and Louisiana as well as handling sales and service for Gevaert microfilms and motion-picture films.

Reuben S. Siegel has been appointed Senior Project Engineer in the Photo Development section at Mergenthaler Linotype Co., Brooklyn, N.Y. Mr. Siegel was formerly Supervisory Chemist at L. B. Russel Chemicals, Inc., Long Island City, N.Y.

Aubrey Harris who has been Technical Sales and Service representative in Europe for the Ampex Video Tape Recorder has been given a new appointment with the

newly established Ampex International Engineering Dept., Redwood City, Calif. The function of the new department is to investigate the problems involved in the operation of the television tape recorders on television standards other than those of the United States.

Leaflets describing viewers and slide projectors in a wide range of sizes and prices are available from Tel-A-Story, Inc., 523 Main St., Davenport, Ia. Used for sales presentations, window displays and similar purposes, some of the models are equipped with sound. Costs range from \$39.75 to \$249.50, with accessories at additional costs.



books reviewed

Infrared Radiation

By Henry L. Hackforth, Published (1960) by McGraw-Hill Book Co., 330 West 42 St., New York 36. v-xii + 303 pp. incl. illus., charts, graphs. 6 by 9-in. Price \$10.00.

Infrared Radiation presents a good review of elementary principles of infrared physics, of elementary optical systems and of infrared techniques as applied to today's myriad industrial and military problems. It would be necessary, however, to supplement the material presented in this book by a number of more practical topics in the field of infrared instrumentation if one were to arrive at a point where this knowledge could be applied.

Specifically, one of the major problems in the design of an infrared scanning or tracking instrument working in the daytime has always been the suppression of the very intense Earth or cloud backgrounds. Hackforth has included no extensive discussion of the spatial or spectral characteristics of infrared backgrounds and his treatment of space filtering is poor considering the relative excellence of some of the material in the present literature. He makes no mention of electronic image processing techniques such as edge sharpening, pulse length discrimination, etc.

The section of atmospheric absorption is not detailed enough to be usable for practical engineering purposes. There is also a good deal of material on the distribution of water vapor of altitude which might be included with profit. The chapter on optical systems would have been improved by the inclusion of simple formulae for the first order computation of coma and spherical aberration.

In general, this reviewer would find the book useful for the purpose of introducing people to the subject of infrared, but would, at the same time, find it necessary to supplement this book with more comprehensive material in the above areas.—*T. R. Whitney*, Infrared Systems Dept., Ramo Wooldridge, 8433 Fallbrook Ave., Canoga Park, Calif.

An adhesives properties chart containing information on epoxy adhesives, application, cure times and physical properties is available upon request from Furane Plastics, Inc., 4516 Brazil St., Los Angeles 39. The reverse side of the chart contains such information as test methods, application suggestions and availability.



Scratches on Film Irritate Audiences

Scratches are havens for dirt, and refract light improperly. On the screen, they mar the picture and may distract attention. If on the sound track, they produce offensive crackling.

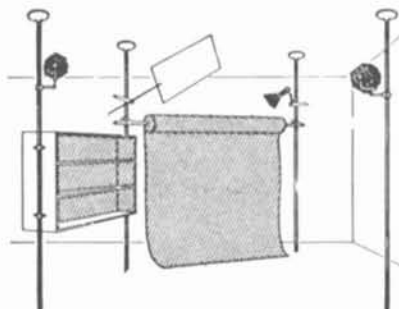
Fortunately scratches can almost always be removed — without loss of light, density, color quality, or sharpness. *Write for brochure*

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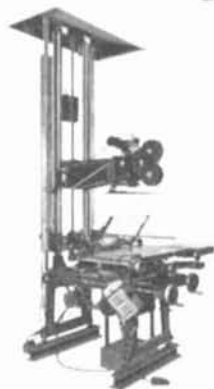
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Magic Shadows

By Martin Quigley, Jr. Published (1960) by Quigley Publishing Co., 1270 Sixth Ave., New York 20. 191 pp. incl. Appendix I (a Descriptive Chronology) and Appendix II (Bibliography and Acknowledgments). Illus. 6 by 9 in. Price \$4.50.

First published in 1948 in a limited edition which has long been out of print, this volume is the first commercial edition of *Magic Shadows*. Written in a popular, easy-to-read style, the book traces the development of motion picture "from Adam to Edison," as stated in the introduction, or from the very emergence of light from the darkness of Chaos to April 23, 1896, when the Vitascope (the Armat-

Edison projector) was demonstrated commercially.

Much of the Author's material, particularly in the early chapters is but loosely related to the development of the motion picture. With such a vast period of time to survey in such a limited space, the book is, of necessity, episodic and spotty. This statement is not intended as a criticism of the book. As a framework upon which to hang a delightful collection of anecdotes, interspersed with sober and well-documented fact, it admirably achieves its purpose.

For example, in the chapter on "Kepler and the Stars" (p. 43), the author notes, "In 1600 Kepler became assistant to Tycho Brahe . . . Brahe lost the tip of his nose in a

duel, so he wore a gold one, carrying with him cement with which to stick on the tip whenever it fell off." Presumably, a gold-tipped nose did not directly affect the development of the camera obscura, at least the author does not clearly indicate such an influence. But, even though this bit of historical information does not really contribute to the development of the author's theme, we are pleased that he could not resist including it and other such little gems, and we are sure other readers will enjoy the little anecdotes sprinkled throughout the book.

Television in Britain by Gerald Beadle, Director of the Television Service of the British Broadcasting Corp., a 12-page brochure, is a clearly presented and most informative description of the BBC which, it is noted is "in a sense the grandmother of all television services." The brochure describes how BBC is financed, methods of selection and standards of the programs, and notes that BBC would be prepared "to let the average audience go down to one third, maybe even one quarter of the total rather than lower its professional standards." The author then cites statistics to show that rather than losing its audience it "has always been able to pull in the majority mass audience." The material in the brochure was originally contained in an address delivered in New York in January 1960. Copies, or further information, are available from the British Broadcasting Corp., 630 Fifth Ave., New York 20.

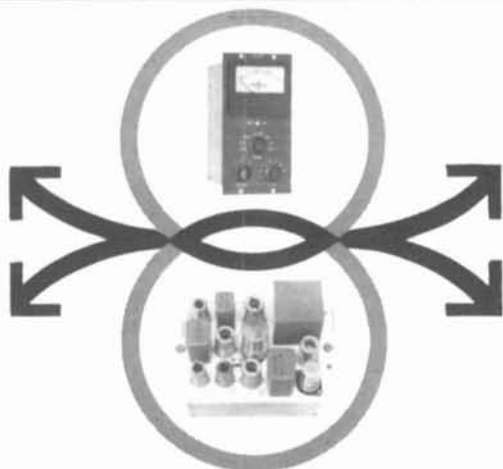
The New England Photographer is a new publication designed, according to the foreword in the first (September 1960) issue "to fill a definite need in New England, that of a proper dissemination of news of the photography world as it pertains to our own six states . . ." It is published monthly by Town Crier Photographers, 364 Middlesex Ave., North Wilmington, Mass. Subscription rate is \$2.00 a year. The Editor is Capt. Larz Neilson; Technical Editor is E. Harrison Rideout; Staff Artist is Joseph Landry; and Contributing Editor is Simeon Korisky.

Notes on educational television published in *RCA Educational News* indicate that with the beginning of the Fall term, in educational institutions throughout the country increasing emphasis is being placed on television as a means of instruction. Continental Classroom (NBC) will conduct a course called Contemporary Mathematics, divided into Modern Algebra for the first semester and Probability and Statistics for the second semester. Last year's course on Modern Chemistry will be repeated. This course, broadcast during the 1959-1960 school year had a daily audience of more than 500,000. The use of television in class instruction more than doubled in New York City during the 1959-1960 school year. Similar indications are evident in schools and colleges throughout the United States.

Information Processing (600 pp., 8½ by 11½-in.) is published jointly by Unesco, Paris; R. Oldenbourg, Munchen; and Butterworth Scientific Publications, Lon-

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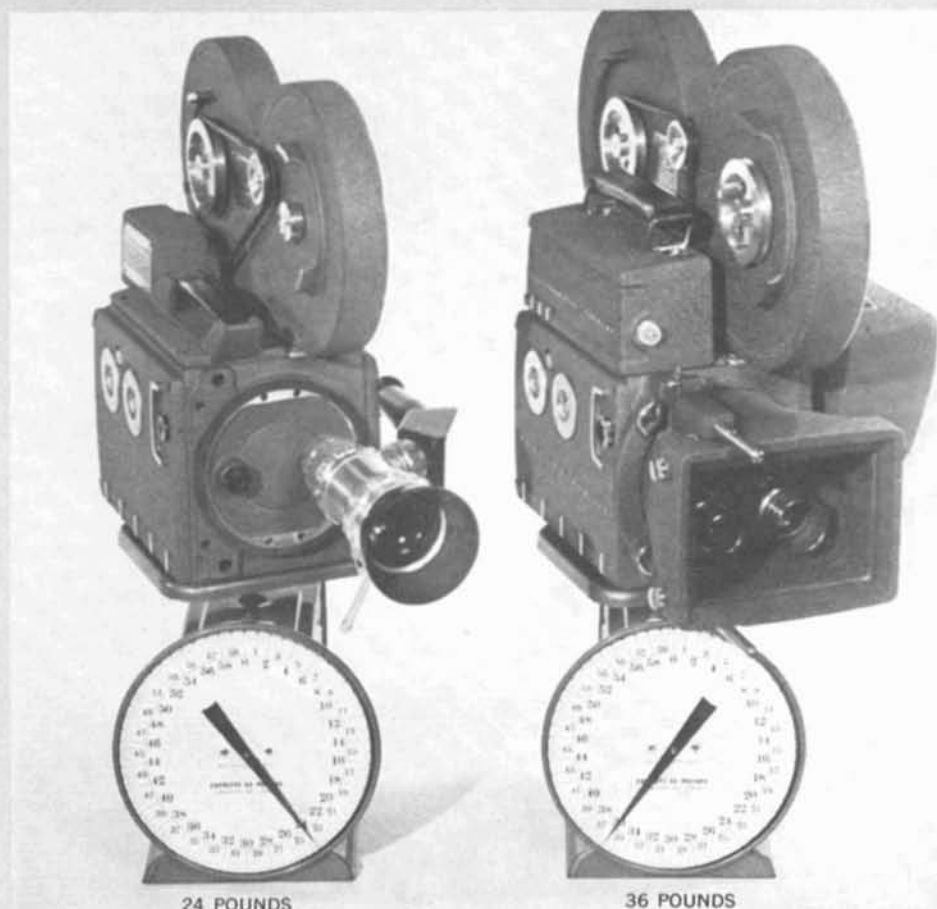
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don, and is available from International Documents Service, Columbia University Press, 2960 Broadway, New York 27. It is priced at \$25.00. The book contains the proceedings of the international scientific conference on information processing conducted by Unesco in 1959 and contains the full text of each of the 61 papers written especially for the conference. Summaries of each paper are given in English, French, German and Spanish and summaries of 65 lectures given in various specialized meetings are given in English and French. Topics cover every major aspect of information processing including methods of digital computing; common symbolic language of computers; automatic translation of languages; logical design of computers; and others.

The Proceedings of the Fifth Conference on Magnetism and Magnetic Materials sponsored by the American Institute of Electrical Engineers, in cooperation with the American Physical Society, the Institute of Radio Engineers, the Metallurgical Society of the A.I.M.E. and the Office of Naval Research has been published by McGraw-Hill Book Co., 330 West 42 St., New York 36. The book is 7½ by 10½-in., contains 419 pages, and 340 illustrations. It is priced at \$10.00. More than 150 articles by eminent scientists and engineers are included, covering recent developments, both theoretical and applied. Topics range in scope from relatively simple test techniques for evaluating materials to advanced research relating to such phenom-

ena as spin wave resonance, "ferromagnetic" and "antiferromagnetic" distortion and spontaneous magnetizations.

National Electrical Code Handbook, 10th ed., has been revised by Frank Stetka, Electrical Field Service Engineer, National Fire Protection Association. Publishers are McGraw-Hill Book Co., 330 West 42 St., New York 36. The book is 5½ by 8-in., contains 679 pages, 387 illustrations, 53 tables. It is priced at \$8.50. Instructions on the handling of all types of electrical wiring and installations in accordance with the National Electrical Code are presented. New features in the 10th edition include reorganization in line with the rearrangement and renumbering of the National Electrical Code, and a number of changes in basic requirements. The *Handbook* also gives modern examples of how to calculate electrical load, number of branch circuits and size of feeders.

The Encyclopaedia Britannica Films, Inc., has announced publication of its 1960-1961 Films, Inc., catalog, *Profile of the American Film*, describing 1500 Hollywood features and shorts available on 16mm film. The films extend from the 1920s into the 1960s and cover major studios and film types. Nearly 200 features are listed for the first time. Many of the earlier films are available for the first time for nontheatrical showing. The films are grouped under film types and sub-types for easy reference. For example the first category is Action and Adventure. Sub-categories are Sea Stories, Jungle

Adventure, Horse and Dog Stories, Modern Adventure, and Period Adventure. Many of these films are also listed under other categories, such as Childrens Films. The catalog is enhanced by an article by Dorothy B. Jones, "The Language of Our Time." Miss Jones, a recognized authority on motion pictures, develops the interesting theme that the art of the motion picture is a "new Language," speaking without words, "directly and forcefully." The catalog is available without charge upon request.

A 26-page illustrated catalog offered by the Southwest Film Laboratory, Inc., 3024 Fort Worth Ave., Dallas 11, Texas, plus a data sheet on Triad Color Control, gives a comprehensive explanation of the services offered to producers of 16mm films. Considerable general information of practical interest is also included. Published on the occasion of the Laboratory's 10th anniversary, the illustrations include pictures of the staff with a brief run-down of day-to-day activities.

Lenscreen rear-projection screens are described in a packet of literature available from Polacoat Inc., 9750 Conklin Rd., Blue Ash 42, Ohio. Choice of portable screens ranges from 15 by 15-in. size to 9 by 12-ft. Materials include glass panels of various thicknesses and Plexiglas plastic panels up to 9 by 18-ft in a single piece. Included in the packet of literature is the reprint of a paper by John F. Dreyer on "Operational Characteristics of Rear Projection," first published in the August 1959 *Journal*.

Audio-Visual Equipment Catalog No. 306 offers a brief description of products of Genarco Inc., 97-04 Sutphin Blvd., Jamaica 35, N.Y., including several new models of slide projectors. The catalog is printed in three colors, descriptions of the new models are printed with red ink. The catalog is available upon request.

Equipments produced by Westrex Corp., a division of Litton Industries, are described in two four-page illustrated brochures, available from Leo Call, Sales Supervisor, Westrex Recording Equipment Dept., 6601 Romaine St., Hollywood 38. The RA 1500 series of magnetic film recorders and reproducers is described in one brochure and the RA-1621 multiple unit magnetic recorder for motion-picture film is described in the second brochure.

The 1960 Short Form Catalog lists products of Hewlett-Packard Co., 1501 Page Mill Rd., Palo Alto, Calif. Equipments include oscilloscopes, oscillators, digital delay generators, volt meters, electronic counters, waveguide test equipment and similar devices. The catalog is available upon request.

The Bi-Fi, a combination unit for displaying slides and film strips, is described in a leaflet available from Friddel Manufacturing Co., Baytown, Tex. Records of all speeds can be played alone or in combination with other components. The unit includes a tape recorder and slides and film strips can be shown in daylight or at night with or without sound.

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