

Research Laboratories where he did research in various phases of human vision, including the sensitivity of the eye to small color differences. In 1957 he joined the Physical Research Laboratories of Boston University to direct a program in atmospheric optics at the Atlantic Missile Range for the U.S. Air Force.

John D. Hayes is the newly elected President of Herron Optical Co., 9117 South Main St., Los Angeles. The firm, a wholly owned subsidiary of Bausch & Lomb, Inc., Rochester, N.Y., is engaged in supplying optical components to missile and space firms located in the Pacific Southwest.

Two new appointments have been announced by Camera Mart, 1845 Broadway, New York. James Sachse has been chosen to head the Projection Sales and Service Dept. and Irving Joslowitz will head the firm's Moviola Service and Repair Dept. Both men were formerly with Camera Equipment Co.

Milton J. Salzburg, President of Productions Unlimited, Inc., attended the Pula (Yugoslavia) Film Festival at the invitation of the Yugoslavian Government. Productions Unlimited represents Globus Films of Zegreb, Yugoslavia, in the distribution of educational and scientific films.



books reviewed

Motion Picture Presentation Manual

Published (1962) by The British Kinematograph Society, 164 Shaftesbury Ave., London W.C.2. 130 pp. + Index. 9 by 10 in. Looseleaf. Price 12s 6d (plus postage 2s 3d).

Prompted by many complaints of bad presentation of motion-picture films, the British Kinematograph Society formed an All-Industry Committee for the Improvement of Screen Presentation, consisting of representatives from all of the top organizations engaged in the production or distribution of motion pictures. After working for more than a year a report was produced, calling attention to the reasons for faulty screen presentation in every stage from studio to theater. In addition, the committee compiled this manual and is distributing it free to every theater within the United Kingdom.

The manual is published in a loose-leaf binder to facilitate the adding of new material and the replacing of data sheets with later editions.

The information presented in the 65 Data Sheets is very well edited and is presented in a concise, to the point manner, enabling the reader to find an answer to many of the problems in every-day theater operation. Dealing with every subject, from the engine room to the projection booth, the manual not only does an excellent job as a training guide but also provides a great deal of general information on different types of equipment found in theaters, as well as explaining the various techniques used in today's motion-picture production.

The more serious theater operator would be well advised if he provided his projection department with a copy of this manual, after reading it himself.—A.E.A.

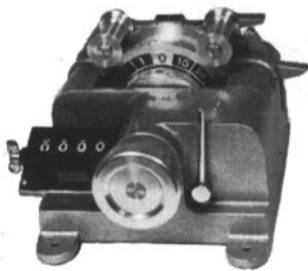
Engineering and Scientific High-Speed Photography

By William G. Hyzer. Published (1962) by The Macmillan Co., 60 Fifth Ave., New York 11. viii + 536 pp. 5½ by 8¼ in. Illus., index. Price \$15.00.

The author has organized, under one cover, in concise and easily accessible form, a considerable amount of the existing information on applied high-speed photographic techniques which has appeared in thousands of reports published in hundreds of formats. The information has been digested, analyzed and presented in the author's own style. The charts, graphs, formulas and tables with which the author presents data make it possible for the

PRECISION® FILM EDITING EQUIPMENT

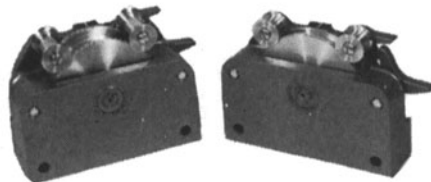
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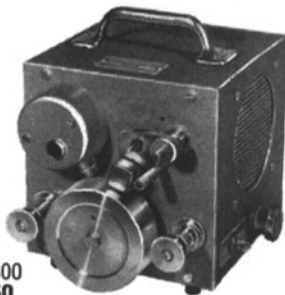


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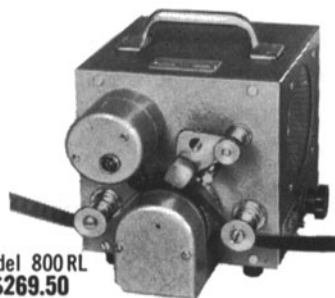


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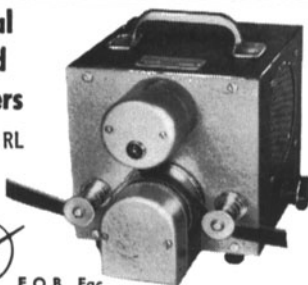


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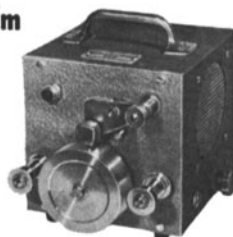
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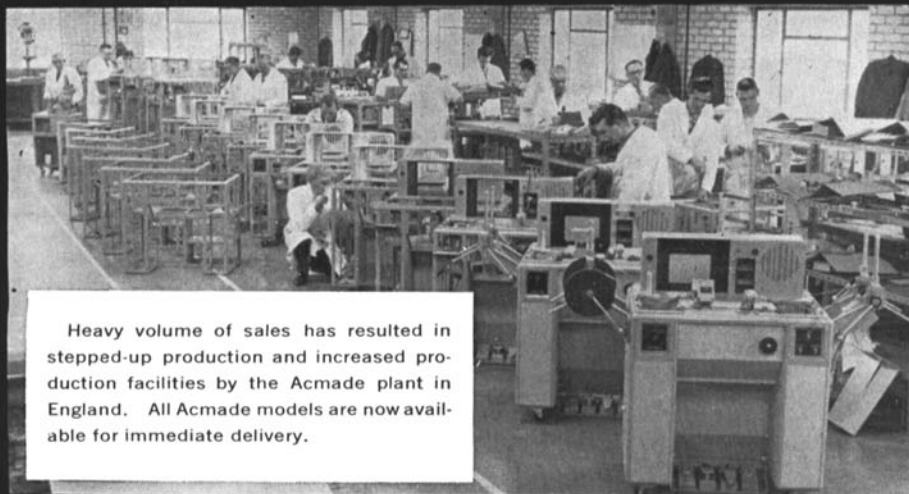


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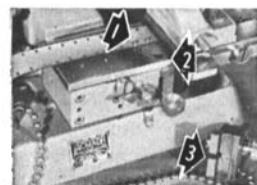
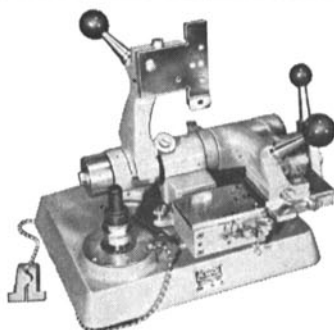
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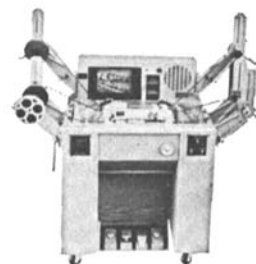
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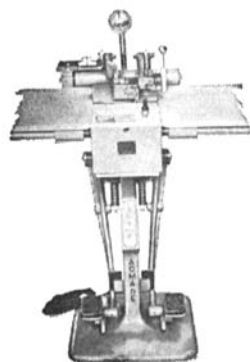
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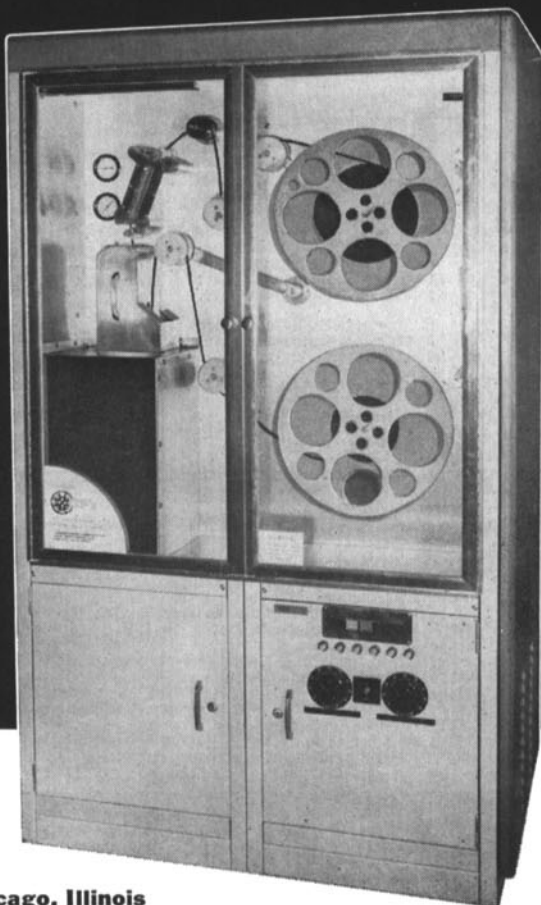
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engineer or scientist to have ready access to this wealth of material.

The emphasis in this book is on procedures; the book's strength lies in the "how-to-do-it" phases of high-speed photographic instrumentation. The discussions of specific applications and equipment are somewhat spotty and in many cases lack the scientific rigor which can be found in the balance of the text. In general, however, this does not detract from the overall value of the book.

The author, after presenting a well-formulated "Introduction to Photoinstrumentation," presents chapters on high- and low-speed recording cameras, optics, emulsions, and lighting. Chapters are then devoted to techniques in high-speed photography, oscillography and specialized applications. The book is closed by a well-compiled chapter on the much neglected field of "Film Analytical Techniques," followed by a rather thorough bibliography.

This text achieves the author's end desire to present a "practical working handbook." The step-by-step procedures, the discussions on principles and techniques, and the examples of applications present a well-rounded guide to technical and scientific personnel engaged in the use of high-speed photography to obtain qualitative and quantitative data in engineering and scientific projects. — *Morton Sultanoff*, Terminal Ballistics Laboratory, Aberdeen Proving Ground, Md.

Motion-Picture Production for Industry

By Jay E. Gordon. Published (1961) by the MacMillan Co., 60 Fifth Ave., New York 11, N.Y. 352 pp. incl. Glossary of terms (21 pp.), Bibliography (13 pp.) and Index (7 pp.) 5½ by 8 in. Price \$8.00.

The number of reference books on industrial motion-picture production is rather small. Considering the very rapid growth in this field, it is surprising that more books have not been written. Many new technicians have joined this rapidly expanding field and the need is very apparent for more basic literature. Accordingly, the appearance of this well-written book by the late Mr. Gordon is especially welcome.

In his preface, the author points out that the book is, "intended as a source of guidance for the man or woman responsible for performing one or more of the many assignments in the often complicated task of producing an effective film." The book is *not* intended to offer instruction in the operation of cameras, projectors or sound equipment. Rather it expounds and illustrates the principles of the successful operation of a film department.

Many practical questions are answered concerning management of an industrial film producing studio, such as choice and use of equipment, recruiting of actors, when animation should be used, techniques of aerial photography, promotion of film material and the role of the film library.

The 25 chapters cover such subjects as: Getting the Production Started; Directing the Action; Motion-Picture Photography; Motion-Picture Sound; Editing the Rough Cut; Narrating the Film; Re-recording the Sound Tracks; Assembly of the Orig-

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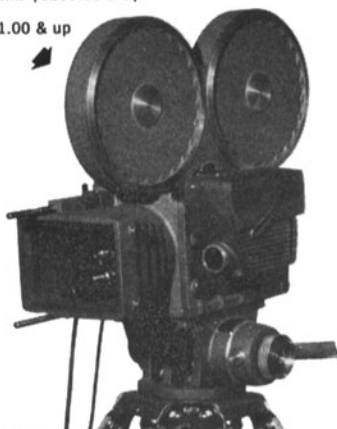


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inal, or Negative Cutting; Ordering the Answer Print; Procuring the Release Prints; Distributing the Film; Exhibiting the Film; and Miscellaneous Services of a Film Department. Many of the chapters contain several interesting illustrations and diagrams.

Before his untimely death in an automobile accident over a year ago, Mr. Gordon was Supervisor of Motion Picture and Audio-Visual Aids for North American Aviation. His little book will stand a long time as a fitting memorial to his knowledge of the subject. Its reading by anyone interested in industrial motion pictures should prove both helpful and informative.—*Glenn E. Matthews*, Eastman Kodak Co. Research Laboratories, Rochester 4, N.Y.

Electronics Reliability and Microminiaturization

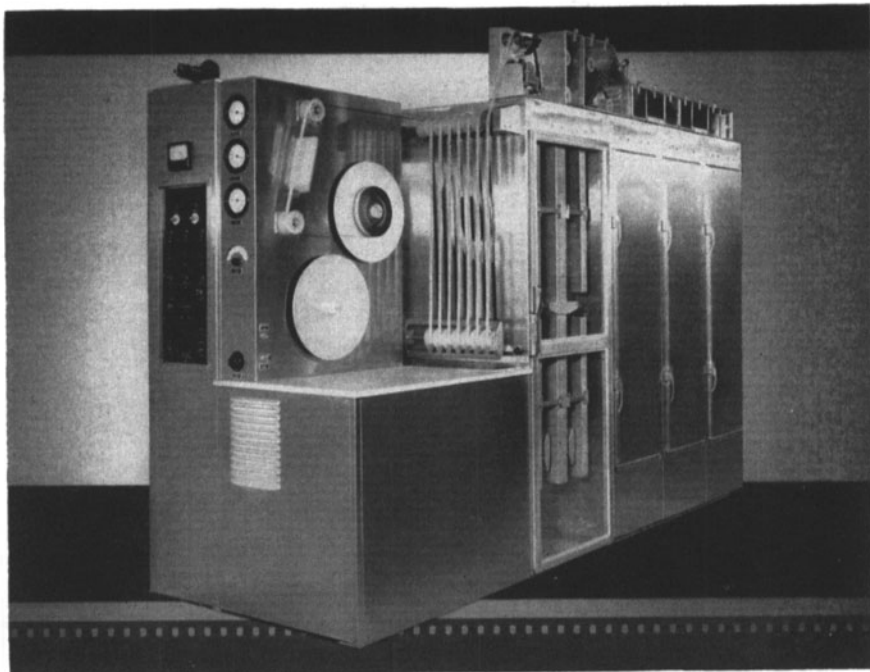
Editor-in-Chief, G. W. A. Dummer. Published quarterly by Pergamon Press, 122 East 55 St., New York 22. Vol. 1, No. 1, 100 + iv pages, 7½ by 9½ in. Annual subscription (A) Libraries, government establishments and research institutions, \$30; (B) Individuals, \$10.

A new British journal has appeared that concentrates on the subjects of electronics reliability and of microminiaturization. This initial issue contains several summary papers from both of these fields plus a few more specific contributions. On the matter of reliability a summary article can of course give only meager practical illustra-

tions. But it would be interesting to the reader to see just how practical equipment really does behave in comparison with these beautiful idealized failure rate vs. time curves. Also how real systems actually follow the systems reliability vs. component reliability curves, which assume a certain independence between failures. It is presumed that microminiaturization techniques lead to a higher system reliability than the conventional, but it would be reassuring to see a presentation of good experimental evidence on this point.

One wishes well to this new journal that covers such a vitally important aspect of modern electronic technology, and looks forward to seeing some very difficult and perplexing problems discussed in it.—*Pierre Mertz*, Consultant, 66 Leamington St., Lido Beach, L.I., N.Y.

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Zone System Manual

By Minor White. Published (1961) by Morgan and Morgan, Inc., 101 Park Ave., New York 17. 112 pp., illus. and tables. 5 by 7½ in. Price \$1.95.

The objective of the Ansell Adams "Zone System" of photographic exposure is to key each exposure to a series of light value "zones" instead of the more usual single "average" tone. A stepped gray scale is attached to the exposure meter dial, and it is consulted together with the scene. The procedure is described in some detail in this booklet, and is suggested as permitting a more comprehensive appraisal of required exposure than afforded by the single value of tone.—*Pierre Mertz*, Consultant, 66 Leamington St., Lido Beach, L.I., N.Y.

Communications Dictionary

By James F. Holmes. Published (1962) by John F. Rider, Inc., 116 W. 14 St., New York 11. 96 + viii pages. 6 by 9 in. Price \$1.50.

The publications of this firm have often been directed to the less sophisticated reader. Although some of the terms listed here are perhaps a bit naive, such as "black box," the general level is remarkably high. More than a third of the approximately 2500 terms listed are starred as indicating a term and definition approved by the American Standards Association. While the field covered is not specifically motion pictures and television, there is really a fair overlap with this art.—*Pierre Mertz*, Consultant, 66 Leamington St., Lido Beach, L.I., N.Y.

The Origin of Radar

By Robert Morris Page. Published (1962) by Anchor Books, Doubleday & Co., Garden City, L.I., N.Y. 196 pp. + 8 pp. plates. 4½ by 7½ in. Paper bound. Illus. Price \$0.95.

Of more interest to Society members than many other books in the Science Study Series, *The Origin of Radar* also is an example of a tutorial method not foreign to the editorial policy of this *Journal* whose pages have benefited from historical/tutorial papers.

Labeled by the publisher "An Epic in Modern Technology," the history told



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here is partly autobiographical. Dr. Page joined the Naval Research Laboratory in 1927; in 1934 he completed the world's first pulse radar for the detection of aircraft.

The easy, if not quite coy, narrative style and the simple phraseology of the scientific content do not obscure the over-all picture which many technical readers will appreciate. It seems a fair history, with many contributors to radar cited. The story comes to its climax when British efforts are combined with American to develop microwave radar.

The author has received many honors and awards which he acknowledges as "bearing testimony to a highly competent and loyally devoted group of research

engineers in a Laboratory that has had an unusually prolific record of scientific achievement." From this outlook has come naturally an account which gives much credit to another Laboratory — the Radiation Laboratory of Massachusetts Institute of Technology.

This is one of the interesting series of books for the young student or the layman, a series which grew out of an M.I.T. project to revise the secondary schools' physics curriculum.—V.H.A.

The Optical Industry Directory

Published (1962) by the Optical Publishing Co., Lenox, Mass. Price \$7.50.

The 1962 issue of *The Optical Industry*

Directory, released during July, is the eighth edition of a very complete directory covering all areas of the optical industry, including manufacturing, testing and distributing.

The 210-page directory is divided into three general sections. The first, The Classified Section, itemizes equipment, services, and raw materials. The specific headings number over 500 subjects. The Company Address Section lists nearly a thousand organizations. For the convenience of the user the publishers have included the consolidation of small companies with larger organizations as well as changes of address resulting from the building of new facilities. The listing also includes the names and telephone numbers of the key officers of each organization. The Lens Appendix lists the characteristics of over a thousand "off the shelf" objectives, giving the manufacturer as well as the trade name and principle use.—A.E.A.

Der Filmtrick und der Trickfilm

By Werner Reff and Stefan Vasarhelyi. Published (1961) by VEB Fotokinoverlag Halle, Halle (Saale) C2, Muhlweg 19, Germany. 280 pp. 230 illus. 5 1/4 by 8 1/2 in. Price: DM 15.

This book is of value to the layman and the enthusiastic amateur. Long-established techniques are summarily dealt with and though the author's enthusiasm for narrow gauge photography is timely the superficial technical elucidation is timeworn. The substance of the publication has been covered to a large degree by previous publications such as Bulleids "Special Effects in Cinematography" 1954. The European preoccupation with puppet animation is clearly demonstrated by the generous degree of explanatory book space allotted to it. The explanatory diagrams are concise and the photographic plates adequate. Some formulas for model motivation are presented of limited application.—(translated by Willy Breitenbach) reviewed by Wally Gentleman, Director, Special Photo Effects, National Film Board of Canada, Montreal, P.Q.

Design in Motion

By John Halas and Roger Manvell. Published (1962) by Hastings House Publishers Inc., 151 East 50th St., New York 22. 160 pp., 8 1/2 by 11 1/2 in. Profusely illustrated. Price \$12.50.

Design in Motion is one of the publisher's "Visual Communication Books," and the volume is not only an effective exposition on visual communication but a handsome example of it. All but ten per cent of the book's pages are essentially illustrations, with words appearing only when essential for the pictures. The authors choose words as carefully as they pick pictures, and they have succeeded in producing a thoroughly useful text. In addition to these values, nearly a tenth of the picture pages are in color.

Readers will recall that these authors wrote *The Technique of Film Animation*, which explained the stages of animation and included more than two-hundred illustrations collected from producers all over the world.



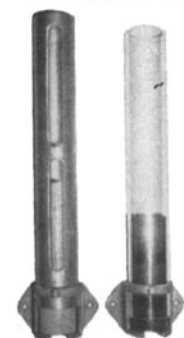
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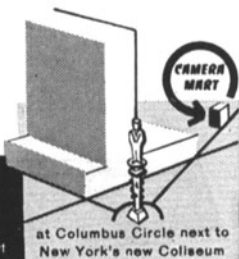
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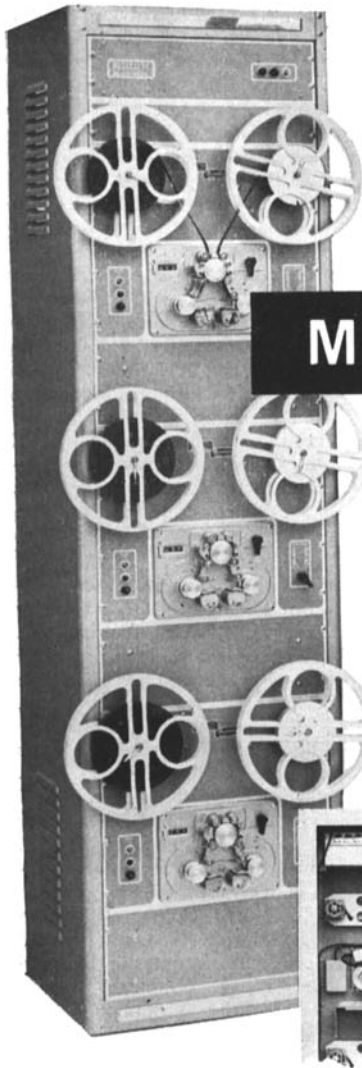
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Rear interior view of Selsyn motor electrical interlock

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6331 Hollywood, HO 7-9202

KANSAS CITY, MO.
Barnard's, 4724 Broadway,
Country Club Plaza, LO 1-7761
Crick's Camera Shop
6320 Brookside Plaza, HI 4-3390

MINNEAPOLIS, MINN.
Century Camera Shops, Inc.
26 S. 7th, FE 8-5857

NEW YORK CITY
Camera Equipment Co., Inc.
315 W. 43rd, JU 6-1420
Florman & Babb, Inc.
68 W. 45th, MU 2-2928
Pictronics Corporation
236 E. 46th, YU 6-3713
S.O.S. Photo-Cine-Optics, Inc.
602 W. 52nd, PL 7-0440

PHOENIX, ARIZ.
Wilson Camera Sales Co.
130 W. Adams, AL 4-0662

ST. LOUIS, MO.
Stanley Photo Service
106 N. Broadway, CE 1-7840

SAN FRANCISCO, CALIF.
Brooks Cameras, Inc.
45 Kearny, EX 2-1902
SAN MATEO, CALIF.
Foreman's
121 Fourth Ave., DI 3-1869

SOUTH AFRICA
Photo Agencies Pty. Ltd.
9 Kerk St., Johannesburg

ARGENTINA, Buenos Aires
Estudios Ion S.R.L.
Diaz Velez, 3891

AUSTRALIA, Sydney
Sixteen Millimetre
Australia Pty. Ltd.
49 Market, New South Wales

BOLIVIA, La Paz
Casa Kavlin
Casilla 500, Calle Potusi 261-263

BRAZIL, Rio de Janeiro
Mesbla, S.A.
Rua do Passeio 42/56

BURMA, Rangoon
G.K. Theatre Supply Co., Ltd.
57 Lewis Street

CANADA, Islington, Ontario
Alex L. Clark, Ltd.
3751 Bloor St., W.

DENMARK, Copenhagen CHL
Kinovox Electric Corp.
Jenslousvej 2

ENGLAND, London
Delane Lea Processes, Ltd.
12 Moor St., (W-1)
Gordon Cameras, Ltd.
45 Kensington High, (W-8)

FRANCE, Paris
Brockliss-Simplex S.A.
6, Rue Guillaume Tell

GERMANY, Hilden Dusseldorf
Gerhard Johansen
3 Lessingstrasse

GREECE, Athens
Christos Axarlis
50 Stadium St.

INDIA, Bombay
Kine Engineers
26, New Queen's Road

ITALY, Rome
Reportfilm, di J.M. Schuller
Via Antonio Bertolini 31

JAPAN, Tokyo
J. Osawa & Co., Ltd.
5, Ginza, Nishi 2-Chrome, Chuo-ku

NEW ZEALAND, Auckland
Kerridge Odeon Industries
St. James Building, Queen St.

PAKISTAN, Karachi-3
Film Factors, Ltd.
27 Victoria Rd., Rex Annexe

SOUTH RODESIA, Salisbury
William Over & Co. Pvt. Ltd.
Kingsway & Manica Road

THAILAND, Suriwong, Bangkok
G. Simon Radio Co. Ltd.
30 Patpong Avenue

The book noticed here, *Design in Motion*, has five chapters: Pictures in Time; Art and Movement — A History; Contemporary Styles; The Workshop; and The International Panorama; and an Index of Names and Titles. What makes the book is its picture panoply of present-day styles drawn from productions of studios in Brazil, Canada, China, Czechoslovakia, France, Germany, Great Britain, Holland, Hungary, Italy, Japan, Poland, Roumania, Spain, USSR, USA and Yugoslavia. The authors express their gratitude to the International Animated Film Association.

If the professional or the devotee cannot see many of these films, he will get the next best thing in this well-printed book from Great Britain.—V.H.A.

Books, Booklets and Brochures

The **PLI Lens Test Wall Chart** designed by Photo-Lab-Index Editorial Board is published by Morgan & Morgan Inc., Publishers, 101 Park Ave., New York 17. It is priced at \$2.00. Described as "the simplest test chart ever designed," it is based on the scientific target first designed by the Bureau of Standards. The wall chart provides tests for resolving power, spherical aberration, chromatic aberration, curvature of field, astigmatism, coma, distortion, and lateral color.

Two new books of special interest have been announced by Gordon and Breach Science Publishers, 150 Fifth Ave., New York 11. *Linguistic Analysis and Programming for Mechanical Translation: Mechanical Trans-*

lation and Thought, edited by Silvio Ceccato, reports on a research program carried out for the U.S. Air Force by members of the Center for Cybernetic and Linguistic Research, University of Milan. The translating procedure consisted of a double conversion — from the input language (Russian) into the correlational structures of thought, and from these structures into the output language (English). It is priced at \$7.50.

Programming for Digital Computers: Putting Computers to Profitable Use, by J. F. Davison, is intended as a practical introduction to the writing of programs for digital computers. Program examples are given, relating both to technical calculations and business data processing. Descriptions are given of variations of different types of computers and of various pieces of peripheral equipment such as card readers, fast printers, and magnetic-tape decks. The book is priced at \$6.00.

Proceedings of the Convention on Television and Film Techniques (86 pp. 10 by 7½ in. Illus., diagrams, tables. Paperbound. Price, 10/ 6d) is available from The Administrative Secretary, The Television Society, 166 Shaftesbury Ave., London, W.C.2.

The contents include the opening address of the convention by Sir Harold Bishop, President of the Television Society, and seven papers: "The Use of Videotape for Colour Television Recording," by J. Roizen; "A New Rapid Processing Equipment," by B. J. Davies; "Recent Progress in the 'SECAM' FM Colour Television System," by J. Polonsky, P. Cassagne and M.M. Sauvanet; "Thermoplastic Recording," by Dr. W. E. Glenn; "Recent Developments on the Eidophor Large Screen Projector," by Prof. E. Baumann; "Colour Television Engineering: Studio Problems and Techniques," by A. R. Stanley and J. Treays; and "Colour Television Engineering: Equipment Problems and Techniques," by A. R. Stanley and S. N. Watson.

The convention, held April 20–21, 1961, was jointly sponsored by the British Kinematograph Society and the Television Society.

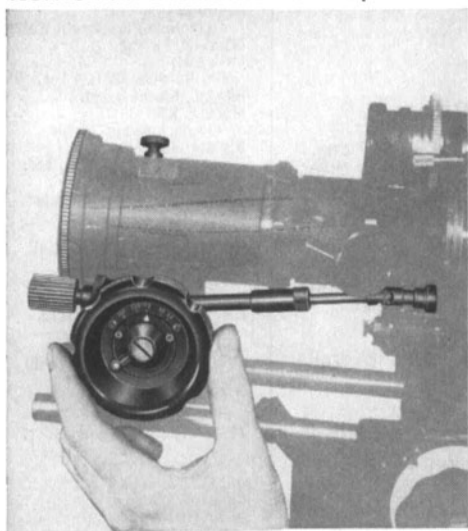
A **bibliography of Civil War films** produced in the United States since 1897 is available from the Superintendent of Documents, Government Printing Office, Washington 25, D.C. Entitled *The Civil War in Motion Pictures*, motion pictures listed in the bibliography deal with events of the period 1855–1970, showing immediate causes of the war, and events of the Reconstruction period as well as the war years. The 109-page list is arranged alphabetically by title and includes information on production and release, credits and cast (if available), and description (running time, black-and-white or color, sound or silent, and width). The price is 60 cents. A sheet listing this and other publications relating to the Civil War is available from the Government Printing Office upon request.

The 1962 Tube Caddy—Tube Substitution Guidebook (2d ed.) by H. A. Middleton is published by John F. Rider Publisher, Inc., 116 W. 14 St., N.Y. It is priced at 90 cents. The 64-page paperbound book lists more

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