

panding the text. A 5-page article on the same subject, written by Robert L. Rod of the same company as the author, appeared in Radio and TV News, February 1959, and covered almost as much material as the 144-page book.

Illustrations in the other volumes of the group reviewed were found to be of greater value, and smaller in number. In other respects, as well, these books were judged to be of much better quality than the one first reviewed. All of the books in this latter group were found to be practical, rigorously accurate, conservative in style, and very readable.

A common feature of these latter books is the use of mathematics to the extent necessary for proper presentation of the subject matter. The level is that of high school or early college.

The phrase "Franklinian Approach" which appears in one of the titles indicates that the text uses the older accepted convention regarding direction of current flow, that is, from plus to minus. The care shown in indentifying the approach is indicative of careful preparation throughout the text presentation.—*Bernard D. Plakun*, GPL Division—General Precision, Inc., Pleasantville, N.Y.

Classification of Electron Tubes

By J. Haantjes and H. Carter. Published (1960) by the Macmillan Company, 60 Fifth Ave., New York 11. Printed in the Netherlands. 100 pp. illus. and 2 tipped-in charts. 8 by 11 1/4 in. Price \$3.50.

How to tell one "-ode" or "-tron" from another is the subject of this newly published book, as is apparent from the title. However, the title, alone, does not indicate the outstanding feature of the book, which is the color artwork of the illustrations.

The text is a serious, scholarly presentation. A brief and simple account of the principal features of electron tubes is given in the early part, and leads to a general statement of the classification methods used. More detailed statements are given in the subsequent divisions, which include: High-vacuum thermionic tubes of general purpose; X-ray and cathode-ray tubes; High-vacuum photoelectric devices; Gas-filled thermionic tubes; Cold-cathode tubes; Gas-filled photoelectric cells; and Pool cathode tubes. The text concludes with an index of applications, and an alphabetical glossary of tube types. The system used for classifying electron tubes is logical and well-defined, offering the possibility of a stable base for classification of future types in a rapidly expanding technology.

The value of the text is enhanced by strikingly beautiful artwork. Some 30 representative tube types are illustrated by full-page cutaway views, in full color, printed by a process which compels admiration. Other illustrations, generously used, are of the same high quality. The artists who prepared the illustrations have transformed a familiar utilitarian device into a vivid subject for modern art.—*Bernard D. Plakun*, GPL Division—General Precision Inc., Pleasantville, N.Y.

Singers' Glossary of Show Business Jargon

By Al Berkman. Published (1961) by Wilshire Book Co., 8721 Sunset Blvd., Hollywood 46. 96 pp. Illus. 8 1/2 by 5 1/2-in. Paperbound. Price \$2.00.

Although a number of slang terms peculiar to show business are included in this book, the title is somewhat misleading in that the preponderance of terms defined cannot, in any sense of the word, be described as "jargon." For example (three randomly chosen out of many), "decible," "G clef," "larynx," are defined according to the dictionary and long-accepted usage. However, terms peculiar to show business—"silo circuit," "hot mike," "lay an egg"—are included in sufficient numbers to give some meaning to the title. This is really no ordinary glossary. For example, under "Instruments," 63 musical instruments used in various types of orchestras and "combos" are described and most of them are illustrated. Concise descriptions include a good deal of historical information as well as information on the construction and use of each instrument—some of them quite exotic. The familiar instruments of ancient and honorable lineage (the violin, cello, oboe, bassoon, etc.) are mixed up in some strange company, to wit, "jaw bone: The jaw bone of native two-year-old Cuban horses hand painted in various colors. When struck with the fist it produces a vibration peculiar to this instrument..." The book is well written and the illustrations selected with imagination and taste; a few cartoons interspersed with the photographs and diagrams are apt and witty. Except for the unfortunate title, this is a completely delightful book.

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current literature



The Editors present for convenient reference a list of articles dealing with subjects cognate to motion-picture engineering published in a number of selected journals. Photostatic or microfilm copies of articles in magazines that are available may be obtained from The Library of Congress, Washington, D.C., or from the New York Public Library, New York, N.Y., at prevailing rates.

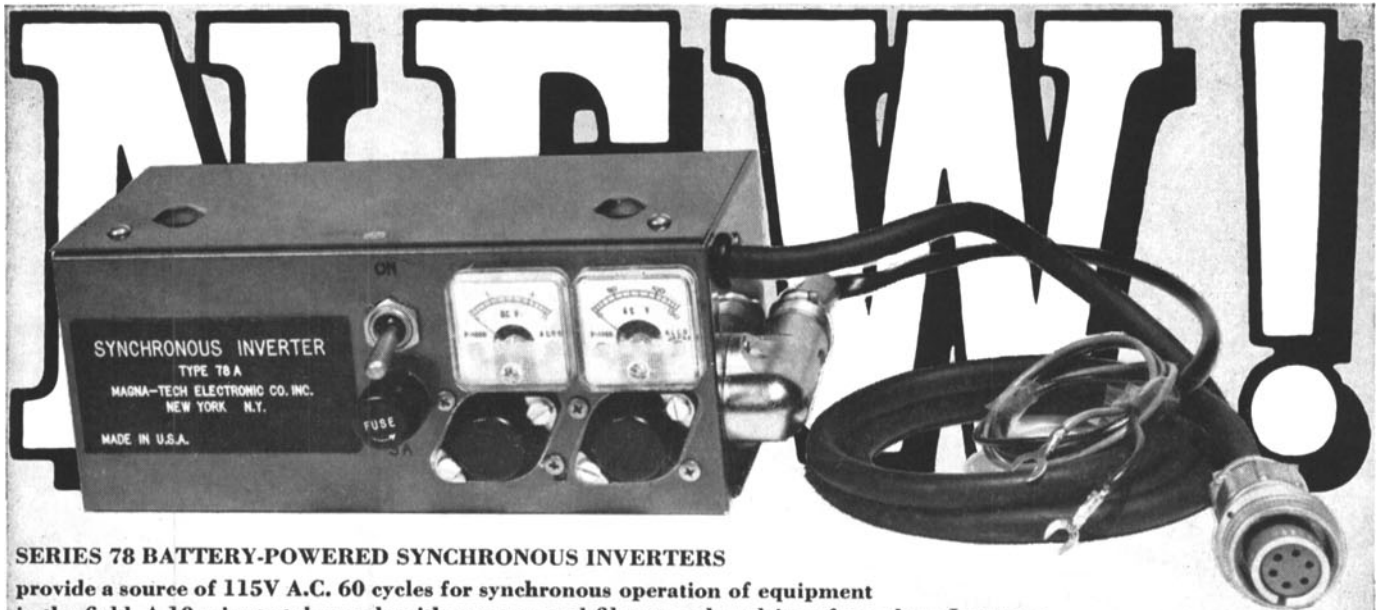
American Cinematographer vol. 41, Oct. 1960
Filter Lore (p. 609) *C. Loring*

vol. 41, Dec. 1960

An Infrared Self-Matting Process (p. 740)
Z. Vidor

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A Simple Sound Dubbing Method for Magnetic-Stripe Films (p. 101) *K. H. Barney*



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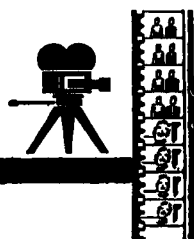
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 Cold Storage Protects Color Negatives (p. 170)
W. Widmayer

Bild und Ton vol. 13, Aug. 1960
 Moderne Filmwiedergabeverfahren im modernen
 Filmtheater (p. 236) *G. Cepnik*

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 Die Synchronität beim 16-mm-Amateurtonfilm
 (p. 305) *H. Schoenecker*

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 Wir belauschen den Uhu und andere Gesichter
 der Nacht (p. 372) *U. K. T. Schulze*

vol. 14, Jan. 1961
 Über die Inkonstanz von Magnettonaufzeich-
 nungen auf Film (p. 2) *F. Trommer u. E. Hilbig*
 Die Klassifikation der Kurzzeitaufnahmever-
 fahren (p. 5) *A. A. Sacharow*

British Kinematography vol. 37, Aug. 1960
 Streamlined Editing and Re-recording Tech-
 niques for Films for Television (p. 32) *P. J.*
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R. J. T. Brown

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 Century Corporation's All Transistorized Sound
 System Said to Cost Less, Give Better Quality
 (p. 8) *L. Daves*
 Print and Projection Data for "Spartacus,"
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 New Arc Mirror for Brighter Projection (p. 6)
A. J. Hatch

Jour. British I.R.E. vol. 21, Feb. 1961
 The Application of Modern Materials to Elec-
 tronic Components (p. 107) *J. M. Herbert and*
R. G. Martin

Symmetrical Transistors as A-C or D-C Switches
 and Their Applications in Modulator and
 Demodulator Circuits (p. 143) *J. F. O. Evans,*
D. A. Gill and B. R. Moffitt

Waveguide Components: A Survey of Methods of
 Manufacture and Inspection (p. 169) *D. J.*
Doughty

Sealed Contact Relays (p. 193) *J. G. Bannochie*
 and *R. A. E. Fursey*

Kino-Technik vol. 14, Sept. 1960
 Der Eidophor-Fernsehprojektor (p. 253) *H.*
Jensen

"Telerecording reversal"—für die Bildschirm-
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 Technische Fortschritte in der Rohfilmherstel-
 lung (p. 303) *K. Würstlin*
 Die technische Entwicklung des Normalfilm-
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 Photographie und Fernsehen—eine vergleichende
 Betrachtung (p. 367) *R. Theile*

vol. 14, Nov. 1960
 Erfahrungen bei Film- und Fernsehaufnahmen im
 Operationssaal (p. 336) *W. Heiss*

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Die Methoden der Röntgen-Kinematographie (p. 12) *H. Hallerbach u. A. Stangen*

vol. 15, Feb. 1961

Kinematographische Methoden in der Mikrobiologie (p. 39) *G. Poetschke*

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Farbfernsehen im Dienste der Chirurgie (p. 71)
Schärfe- und Ausschnittkontrolle bei der Mikrokineematographie (p. 73) *R. Gander*
Umkopieren mit anamorphotischer Dehnung (p. 75)

Photo Technik und Wirtschaft

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Die Bedeutung des 9.5-mm-Schmalfilms für Zweikanal- und Stereoton (p. 320) *H. Brauns*

PMI Photo Methods for Industry

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8mm Sound; a Progress Report (p. 36)
Industrial Motion Pictures (p. 62) *A. Eagle*

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Cineradiography (p. 303) *G. M. Ardran*

Research Film

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A New Dolly-Boom and Light Complex for Medical Color Television (p. 340) *M. R. Klein, et al*

Time-Lapse Cinemicrography on the Permeability of Strain L-Cells to Lissamine Green (p. 366) *B. Holmberg*

Review of Scientific Instruments

vol. 32, Mar. 1961

Technique for the Cinephotomicrographic Study of Etching Phenomena (p. 325) *G. S. Tint and V. V. Damiano*

New Members

The following members have been added to the Society's rolls since the April 1960 Directory and those listed in the September, November and February Journals. Also listed are those regrettably reported as deceased since the February listing. The designations of grades are the same as those used in the Directory. An up-to-date list of the Sustaining Members appears on the outside back cover of each month's Journal.

Fellow (F)

Active (M)

Associate (A)

Student (S)

Deceased

H. Walter Lotz (M)
Paul Kocsis (A)

Edward G. Kolberg (M)
George E. Momberg (A)

Luis Newhall (M)
Vincent Pagliarulo (A)
A. F. Victor (F)

Erratum

We regret that the name of **Louis B. Hoffmann**, 460 N. Barrington Ave., Los Angeles 49, Calif. (M), was inadvertently omitted from the alphabetic list of members published in the April 1960 Membership Directory.

Angas, Michael Fife W., General Mgr., Mole-Richardson (England), Ltd. Mail: 34 Redcliffe Rd., London, S.W. 10, Eng. (A)

Applegate, Robert L., Manager, A-V Dept., Burroughs Corp. Mail: 18880 Lancashire, Detroit 23, Mich. (A)

Arim, Maurice J., Photo. Dir., B.S.F.D., Inc. Mail: 18530 Dolores, Lathrup Village, Mich. (A)

Arnold, Robert A., Elect. Applications Eng., Laboratory for Electronics. Mail: 1018 W. Thomas St., Rome, N.Y. (A)

Baerg, James Robert, Univ. So. Calif. Mail: 12141 Silver Fox Rd., Los Alamitos, Calif. (S)

Baker, Aaron Jules, Lab. Techn., Consolidated Film Ind. Mail: 920 N. Spaulding Ave., Los Angeles 46. (A)

Baker, Hollis D., Mot.-Pic. Unit Chief, Boeing Airplane Co. Mail: 710 S. Kokomo, Derby, Kans. (A)

Bankar, Charandas, Supvr., C. U. Bankar, 616/2-Memb., Panchpaoli, C.N. 15/21, Nagpur 2, India. (A)

Batchelder, Robert, Radio-TV Field Eng., Voice of America, USIA. Mail: 308 Burnt Mills Ave., Silver Spring, Md. (M)

Baum, Frank E., M.D., 701 E. 63 St., Kansas City 10, Mo. (A)

Beaudoin, Guy, Pres., Montreal Royal Film Corp. Lab. Mail: 1240 St. Antoine, Montreal, Que., Can. (A)

Besky, Alec Nicholas, Ryerson Inst. Tech. Mail: 184 Heward Ave., Toronto 8, Ont., Can. (S)

Biggs, Marion Art, TV-Broadcast Chief Eng., KHOU-TV. Mail: Box 11, Houston 1, Tex. (A)

Bjerk, Oliver G., Transmitter Supvr., San Francisco-Oakland TV, Inc. Mail: 51 Lincoln Ave., Daly City, Calif. (A)

Blatchly, William Wayne, Ryerson Inst. Tech. Mail: 535 Highland Ave., Ottawa 3, Ont., Can. (S)

Bluth, Joseph E., Vice-Pres., Glen Glenn Sound Co. Mail: 4830 Arcola Ave., No. Hollywood, Calif. (M)

Bottomley, Geoffrey Malcolm, Ryerson Inst. Tech. Mail: 24 Barnsley Ct., Scarborough, Ont., Can. (S)

Braun, V. Joseph, Jr., Univ. So. Calif. Mail: 63 Deodar La., Bradbury, Duarte, Calif. (S)

Brociner, Michael, Cameraman, Montreal Cine Production. Mail: 3655 Jeanne Mance, Montreal, Que., Can. (A)

Brown, Thomas A., Sales, Electrical Parts, B-60 Ranch Crownsville, Md. (A)

Butterfield, James F., Pres., 3D-TV Co. Mail: Stereotronics Corp., 1717 N. Highland Ave., Los Angeles 28. (A)

Carr, Lester Hayden, Cons. Radio & TV Eng., Fort Evans Farm, Leesburg, Va. (M)

Cesare, Fontana, Student, Centro Sperimentale di Cinemat., Rome. Mail: Via Giosue Borsi, 10, Milano, Italy. (A)

Chalouf, Michel, Antioch Coll. Mail: Antioch College Student Union Bldg, Yellow Springs, Ohio. (S)

Chambers, George Russell, Cons. Radio & TV Eng., 414 French St., Wilmington, Del. (A)

Christie, John W., Accountant, Ralph's Grocery Co. Mail: 908 1/2 N. Verduga Rd., Glendale 6, Calif. (A)

Collins, Wm. Dean, Sales Eng., Minnesota Mining & Mfg. Co. Mail: 401 Eatherly Dr., Nashville 4, Tenn. (A)

Cooper, Michael, Video Service Mgr. Ampex International. S.A., Rue des Pilettes, 7, Fribourg, Switz. (M)

Cowap, Frederic W., Mot-Pic. Sound Eng., A-V Sect., U.S. Public Health Service. Mail: 5124 Tilly Mill Rd., Doraville, Ga. (M)

Cowdery, Charles, dba Graphicolor, 8132 W. Third St., Los Angeles 48. (A)

Crawford, John Dereck, TV Techn., Audio Oper., Canadian Broadcasting Corp. Mail: 20 Cardinal Pl., Toronto 12, Ont., Can. (M)

Crosby, John K., Head, Tech. Data Sect., Stanford Research Institute, 333 Ravenswood Ave., Menlo Park, Calif. (A)

Davidson, Lee E., Instrumentation Eng., U.S. Army Ordnance Corps. Mail: R.D. 2, Havre de Grace, Md. (M)

Davies, Kenneth Peter, Design Eng., TV Studio Equip., Canadian Marconi Co. CFCF-TV. Mail: 69 St. Francis Blvd., Chateaugay, Que., Can. (M)

de Castro, Manuel G., Chief, Photo. & Publications Div., Nat. Bureau of Investigation, Dept. Justice. Mail: 20 San Gabriel, Cubao, Quezon City, P.I. (M)

Delano, Erwin, Lens Designer, Bausch & Lomb, Inc. Mail: 271 Village La., Rochester 10, N.Y. (M)