

Book Reviews

Storage Tubes and Their Basic Principles

By M. Knoll and B. Kazan. Published (1952) by John Wiley, 440 Fourth Ave., New York 16. 143 pp. 34 illus. 6 × 9 in. Price \$3.00.

Presumably the first text devoted exclusively to storage tubes, this book is useful to anyone concerned with the field. Of particular interest to television and motion picture engineers is the treatment of the iconoscope, the image orthicon and their relatives as particular cases of the genus storage-tube.

The writers first treat fundamentals, the electron bombarded "floating" surface, then definitions and basic operational methods. This is followed by a lucid treatment of the details of 23 individual storage tubes, suitably classified as to type. Ninety-nine references comprise the Bibliography, with the helpful innovation of a brief resume of the gist of each. Besides providing additional information this prevents "wild-goose-chases" after apparently promising titles.

Because the tubes are each treated in the same methodical manner, similarities and differences are easily grasped and can be quickly located when the book is used as a reference work. Storage tubes suitable for use with electronic computers are, of course, included, including the interesting case of the kinescope with the external electrode of metal foil.

Co-author Knoll is well known in the field and is responsible for four tubes that are treated impartially along with the rest.

The book is devoid of mathematical expressions, this aspect being treated in many of the cited references. Informative circuit diagrams and the essentials of construction of the tubes are given.

In view of the modest price, anyone who must have an understanding of these devices can hardly afford to be without the book. — *Harry R. Lubcke*, Consulting Engineer, 2443 Creston Way, Hollywood 28, Calif.

1952-53 Motion Picture and Television Almanac

Published (1952) by Quigley Publications, 1270 Sixth Ave., New York 20, N.Y., i-1 + 1010 pp. (including advt.), thumb indexed, 6 × 9 in. Price \$5.00.

This is another in the imposing procession of these annual reference volumes, this one giving an increased attention to the television field. Much of the preliminary work and planning for this volume was done by the late Maurice D. Kann who died on May 15, 1952.

With from three to eleven subsections where appropriate, the volume contains these sections:

- Who's Who in Motion Pictures and Television
- Corporations
- Theatre Circuits
- Drive-In Theatres
- Television and Radio Pictures
- Services
- Theatre Equipment Services and Materials Organizations
- The Government Case
- Codes and Censorship
- The World Market
- The Industry in Great Britain
- The Press
- Non-Theatrical Motion Pictures

Although not a technical or engineering book, this is a valuable and obvious source for data on many business and facilities aspects of the Society's field as well as a help in another amusement activity—settling a discussion.—V.A.

High Speed Photography Issue

This is a special number of the Scientific Section of *The Photographic Journal* for Sept.-Oct. 1952. The release describing this issue advises:

"It is claimed that this publication brings this very important subject completely up to date and it is a source of reference which every firm, government department, laboratory, educational insti-

tution, and individual interested in this field should have.

"It is quite obvious that a number of scientific workers and institutions, not directly specializing in photography and the kindred sciences, do not yet realize the necessity of maintaining a complete set of "Section B" of *The Photographic Journal*. With the approach of the Society's Centenary — 1953 — [this point should be emphasized]. Since its foundation on 20 January 1853, this world-wide organization has fostered all applications of photography, kincmatography, photoengraving, and radiography since their very inception as we know them today. We confidently expect wide recognition of the work performed by this Society during the past one hundred years."

Those who attended the International Symposium on High-Speed Photography at the SMPTE Convention in October will recognize at least two respected acquaint-

ances among the contributors to *The Photographic Journal's* special issue:

- R. H. J. Brown, "Flash Cinematography"
- W. D. Chesterman and G. T. Peck, "A Synchronized Flash-Discharge System for High-Speed 35mm Cinematography"
- J. S. Courtney-Pratt, "Image Converter Tubes and Their Application to High Speed Photography"
- R. A. Chippendale, "Image Converter Techniques Applied to High Speed Photography"
- K. D. Froome, "An Electronically Operated Kerr Cell Shutter"
- J. M. Meek and R. C. Turnock, "Electro-Optical Shutters as Applied to the Study of Electrical Discharges"

This issue is noted on its cover as costing five shillings. Annual rates and other information should be requested from The Royal Photographic Society, 16 Princes Gate, London, S.W.7.

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. 33, Aug. 1952
- Hollywood Launches 3-D Film Production (p. 336) *J. Biroc*
- The Vistascope . . . New Tool for Motion Picture Production (p. 338) *L. L. Ryder*
- "Anistration" . . . Streamlined Animation Technique (p. 340) *A. Rowan*
- Background Projection Photography (p. 342) *C. L. Anderson*
- High-Speed Cinematography (p. 343) *J. H. Waddell*
- vol. 33, Sept. 1952
- WarnerColor — Newest of Color Film Process (p. 384) *E. B. DuPar*
- Miniatures in Motion Picture Production (p. 386) *A. Rowan*
- Camera Fill Lights (p. 388) *F. Foster*
- Lighting for High-Speed Motion Pictures (389) *J. H. Waddell*
- Wheels that Still Turn Backward (p. 390) *R. H. Cricks*
- Filming the TV Dramatic Featurette (p. 392) *H. A. Lightman*
- Now . . . Magnetic Sound for All Cine Films (p. 394) *J. Forbes*

Bild und Ton

- vol. 5, Sept. 1952
- Die Projektierung eingebauter Lichtspieltheater in Moskau (p. 271)
- Schäden am 35-mm-Kino-Film (p. 279) *H. Mager*

British Kinematography

- vol. 21, July 1952
- Magnetic Sound on 16mm Edge-Coated Film; A Short Review of a Current Trend (p. 15)
- vol. 21, Sept. 1952
- A Test to Measure the Flammability of Kinematograph Safety Film (p. 61) *R. W. Pickard*
- Latensification (p. 67) *P. Raibaud*

Electrical Communication

- vol. 29, Sept. 1952
- Low-noise Traveling-Wave Tube (p. 234) *A. G. Peifer, P. Parzen and J. H. Bryant*

Electronics

- vol. 25, Aug. 1952
- Improving TV System Transient Response (p. 110-113) *John Ruston*
- vol. 25, Oct. 1952
- A Phase Indicator for Color Television (p. 112) *K. Schlesinger and L. W. Nero*