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## Atlas of Optical Phenomena

By Michel Cagnet, Maurice Francon, and Jean Claude Thrierrre. Published (1962) by Springer-Verlag, Berlin, and Prentice-Hall, Inc., Englewood Cliffs, N.J. 90 pp. 10½ by 13½ in. Price \$24.00.

A photograph made for scientific purposes can sometimes be esthetically pleasing, as are many of the illustrations in this book. More than this, however, they are of great interest because of the clear and elegant manner in which they illustrate a variety of optical phenomena which few readers will have had the opportunity to observe at first hand. Forty-five plates present illustrations of six types of optical effects: geometrical aberrations, interference, diffraction at infinity, diffraction at a finite distance, polarization, and phase contrast.

The plates are accompanied by brief explanations in German, French and English of the particular optical experiment illustrated, and also by diagrams which explain the experimental arrangement of the optical components. One is left to guess, and marvel at, the ingenious methods employed by Mr. Courmont in making the photographs.

As a teaching aid and reference book for students of physical optics, this volume should receive enthusiastic acceptance. Many of the experiments described could be attempted with profit in an optics laboratory course. If the time or equipment is not available to the student, this book will be a valuable supplement to the standard textbook presentations.

Since each of the experiments described and illustrated presented its special problems, it is difficult to single out especially noteworthy illustrations. One might mention, however, the examples showing the effects of diffraction, coherent and incoherent illumination, and optical filtering. Two examples of filtering are given, showing the elimination of grain and half-tone dot images. With a few paragraphs of description, two diagrams, and two sets of photographs, the authors manage to convey a clear and concise description of a topic which, with less able exposition, can appear to be quite difficult.

This should be an especially valuable work for those having a working acquaintance with optical equipment, but who would appreciate an introduction to the theory of the subject. On the other hand, those having a good theoretical background will recognize this collection as something of a tour de force.—Allan L. Sorem, Eastman Kodak Co., Rochester, N.Y.

## Schlieren Methods:

### Notes on Applied Science No. 31

By D. W. Holder and R. J. North. Published (1963) by National Physical Laboratory, Teddington, Middlesex, and available from Sales Section, British Information Services, 845 Third Ave., New York 22. Paperbound. 106 pp. illus., photos, diagrams, references, appendix. Price \$2.00.

The authors state, as the objective of the book, "to provide data from which it should be possible, without specialized knowledge of optics, photography, or electronics, to determine whether the meth-

ods may be useful in a particular investigation, and, where they are, to design, set up and use a suitable apparatus." This should not be interpreted as an introduction to schlieren for the layman. It is a manual written for the worker with a scientific or technical background. The worker should also have experience with optics, photography, electronics, and the surface problems of schlieren itself to appreciate and benefit from the book.

The authors have dealt with the subject in a very practical manner. It would be impossible to treat each phase of schlieren extensively without resulting in volumes of literature, most of which would duplicate material previously published. The subject, therefore, has been broken down into systematic categories, each of which is dealt with fairly briefly and each of which refers to an item in the book's extensive bibliography. The result is a good working manual in which the worker can gain ideas, review working equations, and easily refer to published material for a more extensive treatment of his questions.—Paul H. Cords, Jr., Naval Ordnance Laboratory, Washington 25, D.C.

## Books, Booklets, Brochures

**A Bibliography of Magnetic Recording** covering the years 1954-1961 has been compiled and edited by R. E. Hadady and published by the Kinlogic Corporation, 29 S. Pasadena Ave., Pasadena, Calif. The 20-page bibliography lists 762 papers and articles from more than 120 technical journals. Complete names and addresses of the journals are included. The references are also cross-indexed under authors' names. The bibliography is intended to provide a comprehensive coverage of all aspects of magnetic recording including data recording, data storage and retrieval, recording design, automation, and sound and television recording. It is priced at \$2.00.

**Traid Line for '63** is a 28-page, illustrated brochure available from Traid Corp., P.O. Box 648, Encino, Calif., which contains descriptions of various Traid products. The brochure also contains descriptions of photoinstrumentation products manufactured by other firms and distributed by Traid Corp.

**Study of the Establishment of National Centres for Cataloguing of Films and Television Programmes** by Jacques Ledoux (No. 40 in the Unesco series of Reports and Papers on Mass Communication) is available in the United States from Unesco Publications Center, 801 Third Ave., New York 22. It is priced at 50 cents. The study attempts to answer such questions as "Why are national cataloguing centers needed? What should be their scope? How should they be organized, especially within the framework of existing services in a given country? How much would they cost? What benefits would they yield, both at national levels and in respect of the freer flow of films across national frontiers?" The author is Director of the



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Belgian National Film Library and is a voluntary officer of the International Federation of Film Archives and of the International Federation of Film Societies.

**A Guide to Films, Kinescopes, and Videotapes Available for Televised Use—Winter, 1962–63** is published by the Instructional Television Library Project according to the terms of a contract with the U.S. Office of Health, Education and Welfare. It is available from Northeastern Regional Instructional Television Library Project, 238 Main St., Cambridge 42, Mass, at a price of \$1.00. The 60-page paperbound book describes telcourses available through the project. Courses at elementary, intermediate, and adult levels are available. In addition a service called "The Sampler Library" is described.

## Abstracts

Abstracts of papers appearing in other journals, chosen for their importance and timeliness, are published in the *Journal* from time to time. Most of these abstracts are translations, chiefly from the U.S.S.R., and are made available to the *Journal* by the Research Laboratories of the Eastman Kodak Company. As a rule, translations are made of the foreign language abstracts, not of the paper itself. The respective complete original texts can be consulted at some libraries. Current issues of *Tekh. Kino i Telev.* can be consulted at, or borrowed from, the Society's Headquarters Office.

Those requiring definitive and thorough searches of current literature and patents are referred to *ABSTRACTS of Photographic Science & Engineering Literature (APSE)*, published monthly by the Department of Graphics, School of Engineering and Applied Science, Columbia University in the City of New York, with the editorial cooperation of the Society of Photographic Scientists & Engineers. The editorial and business office of *APSE* is at: 632 West 125th Street, New York 27, N.Y.

The subject areas are grouped below:

- Biography
- Cameras and Equipment (Except High-Speed)
- Cinematography (Underwater)
- Film and Its Properties
- Instrumentation and High-Speed Photography (Photogrammetry)
- Laboratory Practice
- Lighting (Light Sources and Screens)
- Projection
- Sound Recording and Reproduction
- Studios (Production)
- Television
- Tests and Measurements

### BIOGRAPHY

**Evsei Mikhailovich Goldovskii** (in Russian), Anon., *Zhur. Nauch. i Priklad. Fotografii i Kinematografii*, 8: No. 2, 158–59, Mar.–Apr. 1963.

A biographical note on Goldovskii is given on the occasion of his sixtieth birth-

day. He is one of the foremost Soviet workers on cinematographic technology.—S.C.G.

**An illustrated brochure** available from Southwest Film Laboratory, 3024 Fort Worth Avenue, Dallas 11, Tex., describes in detail services offered by the laboratory. The 28-page brochure includes an explanation of standards for preparation of original 16mm A & B rolls, and methods of marking work prints to indicate effects, as recommended by the Association of Cinema Laboratories. Also offered is a data sheet on Triad color control, described as automation in color printing.

day. He is one of the foremost Soviet workers on cinematographic technology.—S.C.G.

### CAMERAS AND EQUIPMENT (Except High-Speed)

**The Ekran 8mm Motion-Picture Camera** (in Russian), R. M. Gañnullin and A. A. Usachev, *Tekh. Kino i Televideniya*, 7: 73–74, Mar. 1963.

The Ekran camera is a pocket size (105 by 98 by 38mm) 8 mm motion-picture camera made in the Soviet Union for amateurs. It uses quickly interchangeable magazines of film. Supplementary equipment includes a titling device and a watertight casing for underwater photography.—S.C.G.

**The Exhibition of Photographic and Cinematographic Equipment of the Czechoslovak Republic** (in Polish), R. Kreyser, *Fotografia*, 10: No. 7, 177, 1962; *Referativnyi Zhur.*, *Fotokinetika*, Abstract No. 3.46.8, 1963.

A report is given of an exhibition of photographic and cinematographic equipment from Czechoslovakia, organized in Warsaw by the Czech Export Organization KOVO. A short account is given of the new Flexaret VI camera (a two-lens reflex camera taking a 6 by 6cm picture with a Belar *f*/3.5 80-mm objective). Improvements in the construction of enlargers are noticed. The growing interest of amateur photographers in color slides on reversal photographic materials is discussed. The Adior slide projector is briefly described.—S.C.G.

(Translated from *Referativnyi Zhur.*, *Fotokinetika*.)

**Obtaining Exposure Time for Central Shutters**, H. Bank and J. Sohn, *Photo-Technik und -Wirtschaft*, 14: 140, Mar. 1963.

One of the main tasks of the photo shutter is to produce exactly defined exposure times. To get an idea about the accuracy of the exposure time, it is necessary to consider the methods for determining it. This paper reviews measuring systems that have proved successful.