

books reviewed



Color Science: Concepts and Methods, Quantitative Data and Formulas

By Günter Wyszecki and W. S. Stiles. Published (1967) by John Wiley & Sons, Inc., 605 Third Ave., New York, N.Y. 10016. 628 + xiv pp. Illus. Diagrams. Tables. 7 by 10 in. Price \$27.50.

The subject of color is continuing to be of increasing importance to the photographic and television industries, as it is to many other activities that affect our daily lives. *Color Science* as a title shows similarity to *The Science of Color*, the 1953 report of the Optical Society of America Committee on Colorimetry. The new book, in addition to being more up to date, includes particularly a very large number of tables and charts of use to the practitioner in color. The preface states, "The aim has been to assemble the

quantitative tools for work on color; . . . logical presentations of the formulas used in the development of the concepts; the expression, mainly in the form of tables, of the quantitative properties of human color vision which have gained acceptance as standard or hard data applicable in color calculations or further developments."

The two authors are well known as frequent and important contributors to aspects of the science of color. They divide the work into seven sections, namely: Physical Data, on units, radiant sources, optical filters, reflecting materials and radiation detectors; The Eye, with extensive quantitative material; Colorimetry, including data of the 1931 and 1964 standard observers, with a brief history of the development; Photometry, under photopic and scotopic conditions; Color and Brightness Matching, by normal and color-defective observers; Color Discrimination, and color-order systems and diagrams; and finally Miscellaneous Visual Concepts and Data, which include a number of incidental topics on color vision. Aside from the individual references in the text, there is a bibliography of some 700 items.

With such an ambitious scope, the authors have had to draw the line somewhere between inclusion and exclusion of topics, and announce this in the Preface. The reader may be sorry not to see discussion of the important work on color fading. Also there is only the briefest mention of color mixtures from separate stimuli to the two eyes, and no reference is given to its applica-

tion to anaglyphs. Further, with such a wide range of material and points of view, the index becomes a problem. With a total of 22 pages, it seems generally satisfactory. One may note, however, that what in the 1953 report was listed as "maximum luminous reflectance" in 1967 becomes "optimal colors"—and exact tables are given.

All in all, this compendium is an extremely valuable reference work to one who has problems that involve color or color vision, particularly in a precise or quantitative fashion.—*Pierre Mertz*, Consultant, 66 Leamington St., Lido Beach, L.I., N. Y. 11561.

Mechanical and Electrical Design of Buildings for Architects and Engineers: Selected Reference Material From the Building Construction Handbook

Ed. Frederick S. Merritt. Published (1966) by McGraw-Hill Book Co, 330 W. 42 St., New York, N.Y. 10036. 119 + xi pp. incl. index. Diagrams. Tables. 6 by 9 in. Price, \$4.95.

The book presents design information for heating, air-conditioning, ventilation, plumbing, sprinkler systems, electric power, lighting, escalators, vertical conveyors and elevators. It is intended for nonspecialists in these fields and includes references of interest to architects and engineers who may wish to pursue the study of a special branch



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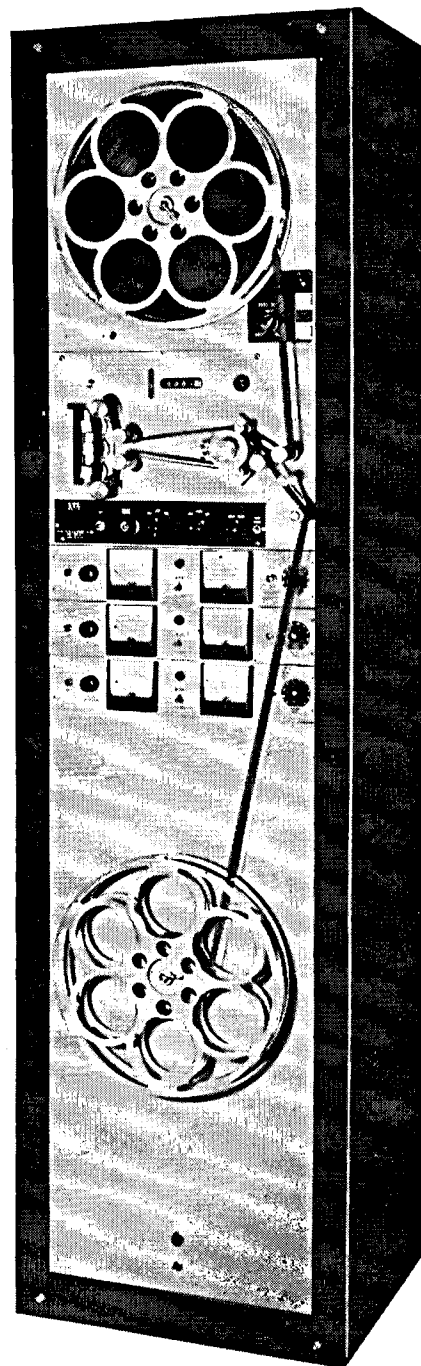
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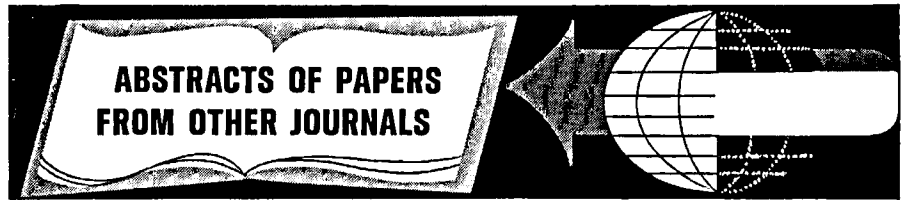
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pertaining to mechanical and electrical engineering. It is more a practical guide than a textbook on the subject — a small handbook of 127 pages with some 50 illustrations and two dozen tables concerned with fundamentals in the four main fields of heating, plumbing, electric power including lighting, and vertical transportation.

The book is a reprint of four chapters taken without change from the book *Building Construction Handbook*, (2nd ed.), edited by the same author, in which each chapter was written by an expert in his field. The authors of these chapters are: Tyler G. Hicks (Plumbing and Sprinkler Systems), Frederick S. Merritt (Vertical Transportation), Ralph Torop (Heating and Air-Conditioning) and Charles J. Wurmfeld (Electric Power and Lighting).

Architects and engineers connected with the design of radio, television and motion-picture buildings may be disappointed in not finding in the book any mention of noise and vibration control. The proper functioning of such buildings depends not only on the provision of interior climatic comfort but also on the establishment of satisfactory acoustic conditions, that is, quietude and absence of objectionable mechanical vibrations — *Michael Rettinger*, Consultant on Acoustics, 5007 Haskell Ave., Encino, Calif. 91316.



Abstracts of papers appearing in other journals chosen for their importance and possible value to researchers as well as those of timely interest, are published in the *Journal* from time to time. Many translations of abstracts from foreign journals, chiefly those of the USSR, are made available to the *Journal* by the Research Laboratories of the Eastman Kodak Company. As a rule, translations are made of the abstracts and not of the papers. The journals in which the papers appear can be consulted at some libraries. Current issues of *Tekhnika Kino i Televidinya* 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)*, produced by the Engineering Index, Inc., 345 E. 47 St., New York, N.Y. 10017, with the editorial cooperation of the Society of Photographic Scientists & Engineers. The subject areas are grouped below:

Aerial Photography
Cameras

Cinematography
Film and Its Properties
General
Instrumentation and High-Speed
Photography
Laboratory Practice
Optics
Photographic Theory and Materials
Sound Recording and Reproduction
Special Applications
Television

AERIAL PHOTOGRAPHY

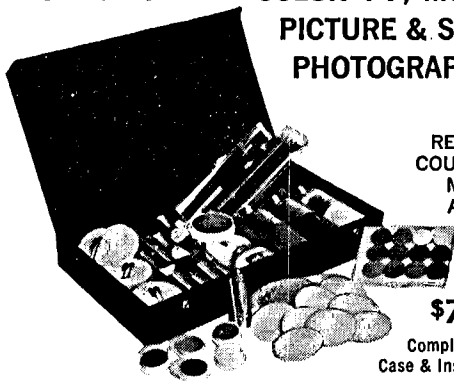
Multispectral color aerial photography, Prof. Edward F. Yost and Sondra Wenderoth, *Photogrammetric Eng.*, 33: 1020-1040, Sept., 1967.

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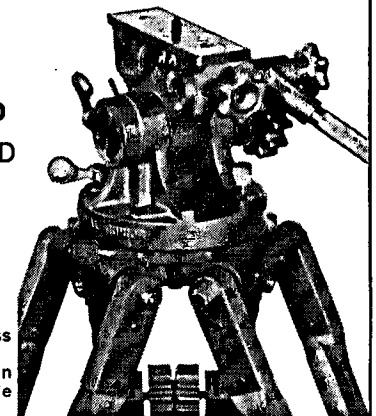


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