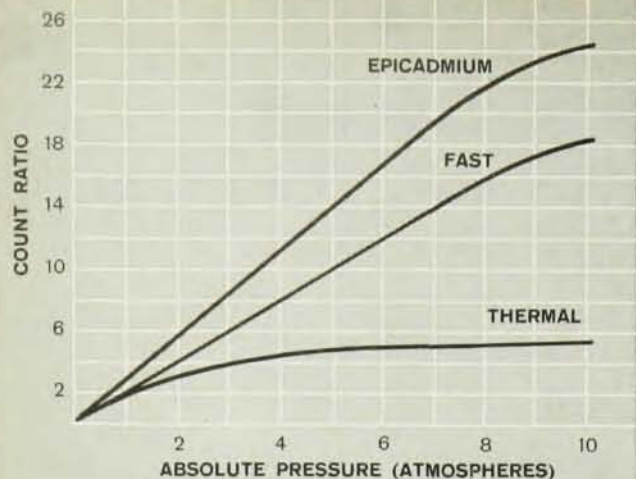




## Compare **TEXLIUM** to other detector tubes

The high efficiency of the **TEXLIUM** detector may be easily seen in this comparison with a Boron Trifluoride detector. **TEXLIUM** detectors with filling pressures ranging from one to ten atmospheres were matched with a 65 cm.  $\text{BF}_3$  (enriched 96%  $\text{B}^{10}$ ) detector. The **TEXLIUM** detector was up to five times more sensitive in the thermal region, up to 18 times more sensitive in the fast region, and up to 24 times more sensitive in the epicadmium region.

The greater sensitivity of the **TEXLIUM** detector is due to the unique properties of **TEXLIUM** filling gas—a blend of specially purified Helium-3 and a quenching additive. These detectors may be used in all types of neutron detection—general survey monitoring, moisture measurement, or oil-well logging. They are recommended for space research because of their high efficiency in low-temperature environments.

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## PUBLISHING NEWS

### *The Science of Color*

A third edition of *The Science of Color* is to be issued shortly, according to an announcement by the Optical Society of America. First published in 1953, after twenty years of preparation by the Society's Committee on Colorimetry, the volume reviews the history, physics, physiology, psychology, and technology of color vision and color measurement. The size of the new edition will be limited by the availability of the original supply of color plates used in the book. In addition to its 340 pages of text, the volume contains 39 tables, 102 figures, 22 pages of bibliography, and a 23-page glossary-index. The entire work has been critically re-examined and corrected.

The initial report of the OSA Committee on Colorimetry was published in the August 1922 issue of *The Journal of the Optical Society of America and Review of Scientific Instruments* as a 70-page section representing a first attempt "to set forth a clear terminology in the field of colorimetrics; to summarize the available physical, psychophysical, and psychological data relating color to its stimulus conditions; to outline briefly the principal methods of color measurement; and to establish the relationship between their respective scales". Following the 1931 meeting of the International Commission on Illumination, which established the modern basis for colorimetry, the Optical Society recognized a need for considerable revision and amplification of the 1922 report, and the Committee on Colorimetry was charged with the task of compiling the volume. The third edition of *The Science of Color* can be ordered directly from the Optical Society of America, Room 101, 1155 Sixteenth Street N.W., Washington, D. C., 20036, for \$10 per copy.

### *Optical Directory*

The ninth annual *Optical Industry and Systems Directory* has recently been issued by the Optical Publishing Company. The Directory this year designates 500 categories of scientific optics, inclusive of instruments, components, systems, and services. Under these categories are listed about 1000 companies or organizations who have the capabilities to furnish such things. In addition, a lens appendix takes note of more than 1000 highly corrected objectives. Copies of the directory are available from the Optical Publishing Company, Lenox, Mass., for \$10 each.

### *Documentation Study*

*Current Research and Development in Scientific Documentation*, No. 11, is the latest volume in a series of semiannual reports compiled by the Office of Science

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The current report is available for \$4.00 from the Office of Technical Services, US Dept. of Commerce, Washington 25, D. C. Previous reports in the series can be obtained from the Supt. of Documents, Gov't. Printing Office, Washington 25, D. C.

## Pyrodynamics

Research and development in thermal power and related technologies comprise the theme of *Pyrodynamics*, a new international journal edited by Gilbert S. Bahn of the Marquardt Corporation. The journal will be published four times a year and will present original research papers dealing with applied kinetic theory, fluid mechanics, thermodynamics, aerothermochemistry, energy and mass transport, chemical kinetics and equilibria, combustion and combustion-like processes, condensation processes, plasma science, and energy conversion that is at least partly thermal in nature. Survey articles, abstracts, book reviews, and bibliographies will also be included. The subscription price of Volume 1 (four issues) is \$25, and orders may be placed with the Circulation Department, Gordon and Breach, 150 Fifth Ave., New York 11, N. Y.

## Reactor-Characteristics Data

A new compilation of data used in calculating reactor characteristics has been prepared by the Reactor Physics Constants Center of the Argonne National Laboratory. Entitled *Reactor Physics Constants* (ANL-5800, 2nd edition), the 850-page volume was issued by the Atomic Energy Commission and supersedes a first edition published in 1958. Material in the book is based on data available through March 15, 1961, though more recent information has been included in some sections. Changes in the new edition include the addition of data on digital computer codes and the omission of properties of elements and reactor materials. The contents are divided into ten sections: fission properties, selected cross-section data, constants for thermal homogeneous reactors, lattice constants for thermal heterogeneous systems, control and dynamics of thermal reactors, intermediate reactors, fast reactors, shielding constants, constants related to inter-

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