



TEXLIUM DETECTORS: BETTER THAN EVER

The detector program at Texas Nuclear is aimed at development of new TEXLIUM (helium-3) models and at continuing improvement in current models. Here are a few recent improvements. Operating temperatures have been extended to 200°C. Voltage plateaus have more than doubled (to 250 volts). Energy resolution has been halved.

Note also these new model developments. Texas Nuclear now provides TEXLIUM detectors for neutron spectroscopy utilizing a krypton additive

for reduced wall effects. We also offer detectors with fast rise and low jitter times for slow neutron time-of-flight studies. Consider as well our ability to build special detectors in sizes ranging from 1" x 1/4" midgets to as large as you care to think about. Please request complete details.

NUC:N-4-222



TEXAS NUCLEAR

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ciety. This collection, like the five previous ones, was compiled and edited by Dr. Ruth Lang. It has six sections: mechanical design, laboratory and workshop devices; laboratory and workshop techniques; optical and thermal techniques and devices; techniques and devices for use with liquids and gases, and at low temperatures; vacuum and pressure techniques and devices; and electrical and electronic devices and techniques involving semiconductors, zone refining, and single crystals.

The volume can be obtained, at \$10 a copy, from its American distributors, St Martin's Press, 175 Fifth Avenue, New York, N.Y.

Space Science

The Smithsonian Astrophysical Observatory has issued Volume 6 of its "Contributions to Astrophysics" under the title, *Research in Space Science*. The 29 papers have been selected from the Observatory's Special Reports 11 through 80, dating from 1958 to 1961, with minor revisions to update the material.

Some of the topics covered include descent and orbital results for satellite 1957 $\beta 1$, structure of the high atmosphere, density of the heterosphere related to temperature, and an analysis of gravity. The volume is for sale by the Superintendent of Documents, US Government Printing Office, Washington, D. C. 20402, for \$2 a copy.

Handbook of Functions

Also available from the Government Printing Office is the *Handbook of Mathematical Functions—with Formulas, Graphs, and Tables*. The volume was compiled by the National Bureau of Standards with technical advice from a committee of the Mathematics Division of the National Research Council. Included are chapters on Bessel functions of integral and fractional order, and exponential integral, Legendre, Mathieu and other functions. Rational approximation formulas, tailored to the computer, are included for all functions. The handbook is priced at \$6.50 a copy.