

Sixty-fourth Annual Meeting Papers

Symposium on

RADIATION EFFECTS IN
REFRACTORY FUEL
COMPOUNDS



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SYMPOSIUM ON RADIATION EFFECTS IN REFRACTORY FUEL COMPOUNDS

Presented at the
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AMERICAN SOCIETY FOR TESTING AND MATERIALS
Atlantic City, N. J., June 27 and 28, 1961



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FOREWORD

This Symposium on Radiation Effects in Refractory Fuel Compounds presents the latest data available on the effects of radiation on the properties of refractory fuel compounds as well as discussion of some of the newer fuel compounds.

The Symposium, sponsored by ASTM Committee E-10 on Radioisotopes and Radiation Effects, included three sessions of papers and a panel discussion. The Symposium was held during the eleventh, fourteenth, nineteenth, and twenty-first sessions of the Sixty-fourth Annual Meeting of the Society, June 27-28, 1961.

Mr. John E. Gates, Battelle Memorial Institute, served as Symposium Chairman and presided over the twenty-first session. Messrs. Ersel A. Evans, Hanford Atomic Products Operation, General Electric Co., and J. B. Trice, Aircraft Nuclear Propulsion Division, General Electric Co., presided over the eleventh and fourteenth sessions, respectively, while Mr. M. J. Whitman, U. S. Atomic Energy Commission, was moderator of the Panel Discussion held during the nineteenth session.

The paper "Irradiation of BeO-UO₂ Fuel Pellets" by D. E. Johnson, J. Koretsky, and A. K. Smalley which was presented during the symposium has not been included in the present volume.

NOTE.—The Society is not responsible, as a body, for the statements
and opinions advanced in this publication.

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THIS PUBLICATION is one of many issued by the American Society for Testing Materials in connection with its work of promoting knowledge of the properties of materials and developing standard specifications and tests for materials. Much of the data result from the voluntary contributions of many of the country's leading technical authorities from industry, scientific agencies, and government.

Over the years the Society has published many technical symposiums, reports, and special books. These may consist of a series of technical papers, reports by the ASTM technical committees, or compilations of data developed in special Society groups with many organizations cooperating. A list of ASTM publications and information on the work of the Society will be furnished on request.

