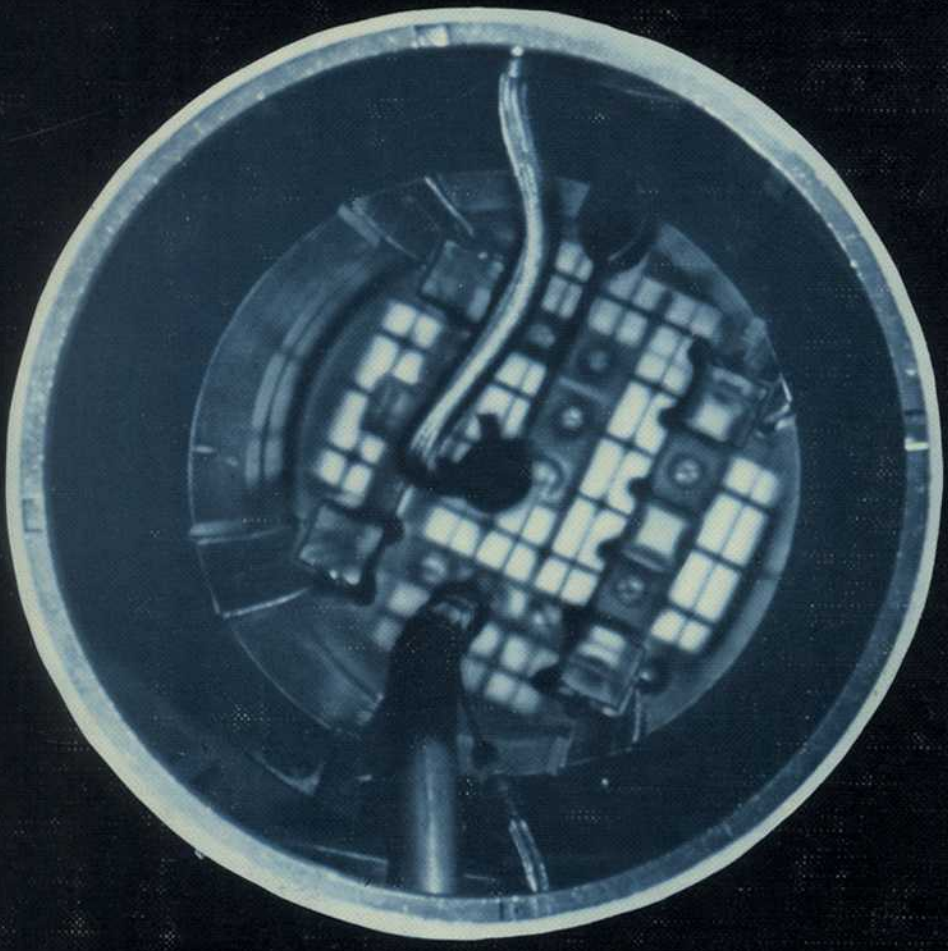
The Effects of Radiation on Structural Metals

stp 426



American Society for Testing and Materials

EFFECTS OF RADIATION ON STRUCTURAL METALS

A symposium
presented at the
Sixty-ninth Annual Meeting
AMERICAN SOCIETY FOR
TESTING AND MATERIALS
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NOTE

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Foreword

The Symposium on Effects of Radiation on Structural Metals was presented in six sessions during the 69th Annual Meeting of the Society, in Atlantic City, N. J., 26 June–1 July, 1966. The symposium was sponsored by Committee E-10 on Radioisotopes and Radiation Effects, in cooperation with the American Nuclear Society and the American Society of Mechanical Engineers. The symposium chairman was W. L. R. Rice, U. S. Atomic Energy Commission. Presiding at the six sessions were T. T. Claudson, Battelle Memorial Institute; C. Z. Serpan, Jr., U. S. Naval Research Laboratory; D. W. McLaughlin, Mechanical Technology, Inc.; D. R. Harries, Atomic Energy Research Establishment (United Kingdom); J. R. Weir, Oak Ridge National Laboratory; and M. S. Wechsler, Oak Ridge National Laboratory.

ASTM gratefully acknowledges the continuing support of the U.S. Atomic Energy Commission in behalf of what has become a biennial Symposium on the various aspects of neutron radiation effects on structural materials. The success of the Third International Symposium on the effects of radiation on structural materials, for which this volume is being published, was due largely to the encouragement of the AEC Division of Reactor Development and Technology and to the timely and authoritative contributions of the scientists and engineers who are supported by this Division.

Special recognition is accorded the personal efforts and encouragement of J. M. Simmons and his staff in the AEC Fuels and Materials Branch. This group has contributed much over the years toward the success of several ASTM topical Symposiums on radiation effects. The ASTM staff looks forward to a continuing close cooperation with the AEC in the several areas related to materials for the nuclear industry.

Related ASTM Publications

Radiation Effects on Metals and Neutron Dosimetry, STP 341 (1963), $15.00

Flow and Fracture of Metals and Alloys in Nuclear Environments, STP 380 (1965), $24.00

Chemical and Physical Effects of High-Energy Radiation on Inorganic Substances, STP 400 (1966), $5.25

Contents