

**Sixty-third Annual Meeting Papers**

*Symposium on*

**RADIATION EFFECTS AND  
RADIATION DOSIMETRY**



Published by the  
AMERICAN SOCIETY FOR TESTING MATERIALS  
1916 Race St., Philadelphia 3, Pa.

***ASTM Special Technical Publication No. 286***

# SYMPOSIUM ON RADIATION EFFECTS AND RADIATION DOSIMETRY

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Presented at the  
SIXTY-THIRD ANNUAL MEETING  
AMERICAN SOCIETY FOR TESTING MATERIALS

June 29, 1960



Reg. U.S. Pat. Off.

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## FOREWORD

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This Symposium on Radiation Effects and Radiation Dosimetry presents some of the latest research on the effects of radiation on materials properties as well as discussions of parameters to be considered in predicting and evaluating such effects. Also presented are newer techniques for radiation dosimetry.

The symposium, sponsored by ASTM Committee E-10 on Radioisotopes and Radiation Effects, was held during two sessions on Wednesday, June 29, 1960, during the Sixty-third Annual Meeting of the Society.

In addition to the papers presented during the symposium, a paper by A. D. Rossin, "Radiation Damage in Steel: Considerations Involving the Effect of Neutron Spectra," has been included in this volume because of its pertinence to the subjects under discussion.

Mr. C. C. Collins, General Electric Co., acted as Symposium Chairman and presided over the morning session. Vice-President M. N. Clair, The Thompson and Lichtner Co., Inc., presided over the afternoon session.

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NOTE.—The Society is not responsible, as a body, for the statements  
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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.



