



# SYMPOSIUM ON IMPACT TESTING

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Presented at the  
FIFTY-EIGHTH ANNUAL MEETING  
AMERICAN SOCIETY FOR TESTING MATERIALS  
Atlantic City, N. J., June 27, 1955



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## FOREWORD

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This publication is based on a Symposium on Impact Testing that was held at the Fifty-eighth Annual Meeting of the American Society for Testing Materials in Atlantic City, N. J., June 27, 1955 comprising the First and Second sessions. The symposium was sponsored by Committee E-1 on Methods of Testing with Mr. F. G. Tatnall, Baldwin-Lima-Hamilton Corp., Philadelphia, Pa., serving as Symposium chairman.

Mr. Tatnall also presided at the Second session with H. L. Fry, Bethlehem Steel Co., Inc., Bethlehem, Pa., as secretary and Mr. W. W. Werring, Bell Telephone Laboratories, Inc., New York, N. Y., presided at the First session with W. H. Mayo, U. S. Steel Corp., Pittsburgh, Pa., as secretary.

**In addition** to the papers presented as a part of the Symposium, five other **papers, being** appropriate to the general theme of the Symposium, have been included on "Effects of Manganese and Aluminum Contents on Transition Temperature of Normalized Nickel Steel," by T. N. Armstrong, and O. O. Miller, International Nickel Co.; "Low-Temperature Transition of Normalized Carbon—Manganese Steel," by T. N. Armstrong International Nickel Co. and W. L. Warner, Watertown Arsenal; "Effect of Specimen Width on the Notched Bar Impact Properties of Quenched-and-Tempered and Normalized Steels," by R. S. Zeno, General Electric Co.; "Stress-Strain Relationships in Yarns Subjected to Rapid Impact Loading," by Herbert F. Schiefer, Jack C. Smith, Frank McCrackin, and W. K. Stone, National Bureau of Standards; and "Shock Testing with the Rocket-Powered Pendulum," by R. W. Hager, Sandia Corp.

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**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.



