

Second Pacific Area Meeting Papers

Symposium on

NONDESTRUCTIVE TESTING



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SYMPOSIUM ON NONDESTRUCTIVE TESTING

Presented at the
SECOND PACIFIC AREA NATIONAL MEETING
Los Angeles, Calif., September 17 and 18, 1956
AMERICAN SOCIETY FOR TESTING MATERIALS



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FOREWORD

Nondestructive testing as a method of materials inspection has increased in importance in all fields of engineering. This symposium presents the latest and most widely used techniques, together with their applications in various fields.

The papers in this symposium were presented at three sessions, September 17 and 18, 1956, during the Second Pacific Area National Meeting of the Society, Los Angeles, Calif. The symposium was sponsored by ASTM Committee E-7 on Nondestructive Testing. The first session, September 17, consisted entirely of reports from Committee E-7 and its subcommittees. Papers of general interest and specific industrial application made up the last two sessions.

In addition to the papers presented at the Symposium on Nondestructive Testing, "Nondestructive Testing of Bonded Metal Sandwich Materials" by Richard Anderson, which was presented at the Session on Plastics, held September 17, has been included in this publication since it pertains to an application of nondestructive testing not covered in any of the other papers. Two papers presented at the West Coast Meeting have not been included in this symposium. These are "Advanced Ultrasonic Testing in Europe and America" by Donald Erdman, and "Ultrasonic Reflectoscope Calibration Techniques" by H. E. Van Valkenburg.

Mr. W. C. Hitt, Douglas Aircraft Co., Inc., Santa Monica, Calif., acted as Chairman of the papers section of the symposium. J. H. Bly, High Voltage Engineering Corp., Cambridge, Mass., Chairman of ASTM Committee E-7, together with T. A. Triplett, Triplett & Barton, Inc., Burbank, Calif., and G. H. Tenney, Los Alamos Scientific Laboratory, Los Alamos, N. Mex., presided over the first session, Monday, September 17. L. P. Spalding, North American Aviation, Inc., Los Angeles, and Mr. Hitt presided over the session on Tuesday morning, September 18; J. C. Smack, Curtiss-Wright Corp., Caldwell, N. J., and Hamilton Migel, Magnaflux Corp., Chicago, Ill., presided over the third and last session, Tuesday afternoon, September 18.

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.

