

ASTM Materials Science Series—4

Symposium on

PROPERTIES OF SURFACES



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

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SYMPOSIUM ON PROPERTIES OF SURFACES

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Presented at the
FOURTH PACIFIC AREA NATIONAL MEETING
AMERICAN SOCIETY FOR TESTING AND MATERIALS
Los Angeles, Calif., October 4, 1962



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FOREWORD

This volume is the fourth in the "Materials Science Series" of publications sponsored by the ASTM Division of Materials Sciences.

The papers and discussions were presented in two sessions on Thursday, Oct. 4, 1962, at the Fourth Pacific Area National Meeting of the Society in Los Angeles, Calif.

The symposium was organized by a committee consisting of L. A. O'Leary, W. P. Fuller and Co., and W. L. Fink, Aluminum Co. of America (retired). The presiding officer for both sessions was R. T. Kropf, Belding Heminway Co., Inc., Chairman of the ASTM Division of Materials Sciences. W. L. Fink was cochairman for the first session and L. A. O'Leary for the second.

The papers in this publication differ in some respects from the program as presented. In the absence of Prof. Cabrera, his paper was presented by Prof. Adamson; subsequently, Prof. Adamson submitted the paper on Structure of Solid Surfaces which appears in this publication.

The paper by J. E. Marian was presented at a Session on Adhesive Bonding and Sandwich Construction on Oct. 4, 1962, which was also a part of the Los Angeles meeting of the Society, but because of its relevance to the symposium it is included in this publication.

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

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Materials Science Series publications are sponsored by the Society's Division of Materials Sciences. In this series the interdisciplinary nature of materials is emphasized as a subject for study and understanding. The publications comprise papers presented at Division-sponsored symposia at National Meetings of the Society.

THIS PUBLICATION is one of many issued by the American Society for Testing and 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.

