

**Sixty-first Annual Meeting Papers**

*Symposium on*

**EFFECT OF WATER ON  
BITUMINOUS PAVING MIXTURES**



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

***ASTM Special Technical Publication No. 240***

# SYMPOSIUM ON EFFECT OF WATER ON BITUMINOUS PAVING MIXTURES

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Presented at the  
SIXTY-FIRST ANNUAL MEETING  
AMERICAN SOCIETY FOR TESTING MATERIALS  
Boston, Mass., June 24, 1958



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## FOREWORD

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The destructive effect of ordinary rainfall and the presence of water in a highway pavement may be little known to the motorist but the highway engineer is painfully aware of the effect as the presence of water contributes to the failure of an otherwise perfectly designed pavement.

In light of the tremendous national highway program under way throughout the nation, it is timely to make available a group of six papers discussing the factors which play a significant part in the behavior of bituminous paving mixtures when exposed to the stripping action of water.

The papers and discussions in this Symposium on Effect of Water on Bituminous Paving Mixtures, with the exception of the paper by Brown, Sparks, and Marsh, were presented at the Nineteenth Session of the Sixty-first Annual Meeting of the Society held in Boston, Mass., on June 24, 1958. The symposium was sponsored by ASTM Committee D-4 on Road and Paving Materials through a special subcommittee under the chairmanship of C. E. Proudley, North Carolina State Highway and Public Works Commission, who also served as chairman of the session.

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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.