

Volume I • Part 1

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PERFORMANCE OF EARTH DAMS  
EARTH-REINFORCED STRUCTURES

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## FOREWORD

In February of 1958 the Executive Committee of the Soil Mechanics and Foundations Division, ASCE, appointed a Task Committee—with W. J. Turnbull as chairman—to organize a national conference on the shear strength of cohesive soils. A series of "Specialty Conferences" ensued, as follows:

- 1960 UNIV. OF COLORADO  
Research Conference on Shear Strength of  
Cohesive Soils
- 1964 NORTHWESTERN  
Design of Foundations for Control  
of Settlement
- 1966 UNIV. OF CALIF. AT BERKELEY  
Stability and Performance of Slopes  
and Embankments
- 1968 MIT  
Placement and Improvement of Soil  
to Support Structures
- 1970 CORNELL  
Lateral Stresses in the Ground and Design  
of Earth-Retaining Structures

A Task Committee consisting of M. S. Kapp, R. I. Kaufman, G. A. Leonards, S. D. Wilson and T. W. Lambe (subsequently F. E. Richart) was appointed in February 1969 to plan a conference on the "Performance of Earth Structures and Earth-Supported Structures" to be held at Purdue University in June of 1972. Early in the planning process the Committee decided to emphasize observed behavior of full-scale structures, and papers reporting the results of field measurements were solicited. Papers accepted for the Conference are pre-printed in this volume.

Five half-day technical sessions will be held:

- I. Embankments on Soft Ground
- II. Earth and Earth-Rockfill Dams
- III. Shallow Foundations
- IV. Deep Foundations
- V. Soil-Structure Interaction

Session leaders have been appointed to prepare reports on each session topic, focusing on a critical analysis of the papers in relation to the present state of the art. The session leaders' reports will be preprinted and distributed to registrants for the Conference.

Panels will discuss the session leaders' reports, establish areas of agreement, and debate conflicting viewpoints. Reporters have been assigned to synthesize panel deliberations and discussions from the floor.

The final volume of proceedings, to be published at a later date, will include the reporters' summaries, formal discussions, and additional written contributions.

G. A. Leonards  
*Chairman, Task Committee*

Lafayette, Indiana  
April, 1972

*Note:* In spite of the precautions taken, a number of original manuscripts were damaged in shipment to the publisher. With regret, we extend our apologies for any lack of legibility that resulted.