

The background of the cover is a light brown color with a repeating pattern of stylized, circular diagrams representing soil test results. These diagrams are arranged in a grid-like fashion, with some larger and some smaller, creating a textured, technical appearance. The diagrams consist of concentric circles and radial lines, resembling a fan or a cross-section of a soil sample.

Vane Shear and Cone Penetration Resistance Testing of In-Situ Soils

American Society for Testing and Materials

 STP 399

VANE SHEAR AND CONE PENETRATION RESISTANCE TESTING OF IN-SITU SOILS

A symposium
presented at the
Fifth Pacific Area National Meeting
AMERICAN SOCIETY FOR
TESTING AND MATERIALS
Seattle, Wash., Oct. 31 - Nov. 5, 1965

ASTM SPECIAL TECHNICAL PUBLICATION NO. 399

Price \$2.25; to Members \$1.60



published by the
AMERICAN SOCIETY FOR TESTING AND MATERIALS
1916 Race Street, Philadelphia, Pa. 19103

© BY AMERICAN SOCIETY FOR TESTING AND MATERIALS 1966
Library of Congress Catalog Card Number: 66-17093

NOTE

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

Printed in Philadelphia, Pa.
June, 1966

Foreword

This symposium was held during the Fifth Pacific Area National Meeting of ASTM at Seattle, Wash., on Nov. 2, 1966, and was sponsored by Committee D-18 on Soil and Rock for Engineering Purposes, whose chairman is C. B. Crawford, National Research Council of Canada, Ottawa, Ont., Canada.

Field testing of *in-situ* soils using vane-shear and cone-penetration methods are being used with increasing frequency and wider acceptance throughout the world. Studies are under way to develop standard methods of test for these two procedures so test data can be evaluated on the basis of a known procedure. This symposium has as its objective the presentation of the state of the art in these two procedures.

The paper, "Field Vane Tests with Delayed Shear," which was presented at the symposium, is not included in the volume. The paper, "An Inspection Vane," which is included in this volume, was not presented at the symposium.

The symposium chairman was L. J. Walker, Northern Testing Laboratories, Great Falls, Mont.

Related ASTM Publications

Soils, Papers on 1959 Meetings, STP 254 (1960),
\$9.00

Soil Dynamics, STP 305 (1962), \$4.50

Field Testing of Soils, STP 322 (1963), \$15.00

Soil Exploration, STP 351 (1964), \$8.00

Compilation of Procedures for Soil Testing (D-18)
(1964), \$7.75

Laboratory Shear Testing of Soils, STP 361 (1965),
\$24.50

Compaction of Soils, STP 377 (1965), \$7.00

Instruments and Apparatus for Soil and Rock
Mechanics, STP 392 (1965), \$8.50

Contents

Introduction—L. J. WALKER.	1
An Inspection Vane—A. ANDRESEN and S. SOLLIE.	3
An Evaluation of the Field Vane Test in Sensitive Clay—W. J. EDEN.	8
A Comparison of Soil Shear Strengths as Determined with Field and Laboratory Vane Shear Apparatus—E. B. HALL and E. A. MILLER.	18
Dynamic Cone for Shallow <i>In-Situ</i> Penetration Testing—G. F. SOWERS and C. S. HEDGES.	29
A Simple Shear Test—E. A. SIBLEY AND GEORGE YAMANE.	39

