Laterally Loaded Deep Foundations

Analysis and Performance

Langer/Mosley/Thompson
editors

ASTM STP 835

LATERALLY LOADED DEEP FOUNDATIONS: ANALYSIS AND PERFORMANCE

A symposium sponsored by
ASTM Committee D-18 on
Soil and Rock
Kansas City, MO, 22 June 1983

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J. A. Langer, Gannett Fleming Geotechnical Engineers, Inc., E. T. Mosley, Raamot Associates, and C. D. Thompson, Traw Group Limited, editors

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Frank Fuller

Dedication

It is with deep appreciation to Frank Fuller for his work as chairman of ASTM Subcommittee D18.11 on Deep Foundations that this publication is dedicated. Among the accomplishments during his term as chairman of the subcommittee from 1973 through 1983 were two substantial revisions to ASTM Testing Piles Under Static Axial Compressive Loads (D 1143); two new standards, ASTM Testing Individual Piles Under Static Axial Tensile Load (D 3689) and ASTM Testing Piles Under Lateral Loads (D 3966); initiation of the development of standards for testing soil and rock anchors, dynamic testing of piles, and calibration of test jacks and load cells; and two symposia, Behavior of Deep Foundations, ASTM STP 670, *June 1978, and* Laterally Loaded Deep Foundations: Analysis and Performance, ASTM STP 835, *June 1983.*

Frank Fuller recently retired from Raymond International Builders, Inc., as vice-president and manager of Technical Sales after having held various positions there since his graduation from Renssalaer Polytechnic Institute in 1949. During his career, he has shared unselfishly his expertise on many pile foundation organizational committees for the American Society of Civil Engineers,

American Concrete Institute, Prestressed Concrete Institute, and Transportation Research Board as well as ASTM. In addition he has participated in the development of building code requirements for pile foundations, served as editor and principal writer of "Foundation Facts," contributed piling information to numerous textbooks, publications, symposia and recently authored Engineering of Pile Installations. *For Frank's dedication to the advancement and dissemination of pile foundation knowledge, the engineering community expresses its sincere appreciation and best wishes.*

Foreword

The symposium Design and Performance of Laterally Loaded Piles and Pile Groups was presented at Kansas City, MO, 22 June 1983. The symposium was sponsored by ASTM Committee D-18 on Soil and Rock. J. A. Langer, Gannett Fleming Geotechnical Engineers, Inc. E. T. Mosley, Raamot Associate, and C. D. Thompson, Traw Group Limited presided as chairmen of the symposium and editors of the publication.

Related ASTM Publications

Testing of Peats and Organic Soils, STP 820 (1983), 04-820000-38

Geotechnical Properties, Behavior, and Performance of Calcareous Soils, STP 777 (1982), 04-777000-38

Behavior of Deep Foundations, STP 670 (1979), 04-670000-38

Dispersive Clays, Related Piping, and Erosion in Geotechnical Projects, STP 623 (1977), 04-623000-38

Performance Monitoring for Geotechnical Construction, STP 584 (1975), 04-584000-38

A Note of Appreciation to Reviewers

The quality of the papers that appear in this publication reflects not only the obvious efforts of the authors but also the unheralded, though essential, work of the reviewers. On behalf of ASTM we acknowledge with appreciation their dedication to high professional standards and their sacrifice of time and effort.

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Erratum for STP 835

On the Title page and in the Foreward, Editor C. D. Thompson's affiliation is incorrect. The correct company name is Trow Ltd.

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