

---

---

Journal of the  
SOIL MECHANICS AND FOUNDATIONS DIVISION  
Proceedings of the American Society of Civil Engineers

---

---

SOIL MECHANICS AND FOUNDATIONS DIVISION  
EXECUTIVE COMMITTEE

Wesley G. Holtz, Chairman; Bramlette McClelland, Vice Chairman;  
John Lowe, III; Woodland G. Shockley; H. Bolton Seed, Secretary;  
Leland J. Walker, Board Contact Member

COMMITTEE ON PUBLICATIONS

Robert V. Whitman, Chairman; Richard G. Ahlvin;  
John A. Focht, Jr.; Bernard B. Gordon; James P. Gould; Milton E. Harr;  
Kenneth S. Lane; L. C. Reese; Frank E. Richart, Jr.; R. J. Woodward;  
H. Bolton Seed, Executive Committee Contact Member

CONTENTS

July, 1964

Papers

	Page
Shear Strength of a Soil After Freezing and Thawing by Bengt B. Broms and Leslie Y. C. Yao . . . . .	1
Pore Pressures and Bearing Capacity of Layered Clays by T. Cameron Kenney . . . . .	27
Yielding and Locking of Confined Sand by Robert V. Whitman, Edmond T. Miller, and Peter J. Moore . . . . .	57
Variable-Factors Theory of Bearing Capacity by George C. Y. Hu . . . . .	85
Stabilization of Sand Dunes at Vandenberg Air Force Base by John Peters and Joe Sciandrone . . . . .	97

---

Copyright 1964 by the American Society of Civil Engineers.

Note.—Part 2 of this Journal is the 1964-33 Newsletter of the Soil Mechanics Division.

The three preceding issues of this Journal are dated January, 1964, March, 1964, and May, 1964.

	Page
Clay Mineralogical Aspects of the Atterberg Limits by H. Bolton Seed, Richard J. Woodward, Jr., and Raymond Lundgren. . . . .	107

---

DISCUSSION

---

Flexibility of Clay and Cracking of Earth Dams, by G. A. Leonards and J. Narain. (March, 1963. Prior discussion: November, 1963. Discussion closed.) by G. A. Leonards and J. Narain (closure) . . . . .	135
Bearing Capacity of Piles in Cohesionless Soils, by R. L. Nordlund. (May, 1963. Prior discussion: November, 1963, January, 1964. Discussion closed.) by R. L. Nordlund (closure) . . . . .	139
Stress-Dilatancy, Earth Pressures, and Slopes, by P. W. Rowe. (May, 1963. Prior discussion: November, 1963, January, 1964. Discussion closed.) by P. W. Rowe (closure) . . . . .	145
Expansion of a Cavity in a Saturated Clay Medium, by Branko Ladanyi. July, 1963. Prior discussion: January, 1964. Discussion closed.) by Branko Ladanyi (closure) . . . . .	181
Stability of Cuts in Soft Clays, by T. Cameron Kenney. (September, 1963. Prior discussion: March, May, 1964. Discussion closed.) by John H. Schmertmann. . . . .	183
Boundary Value Problems of Soil Mechanics, by W. D. Liam Finn. (September, 1963. Prior discussion: March, 1964. Discussion closed.) by W. D. Liam Finn (closure) . . . . .	191
Shear Strength of An Anisotropically Consolidated Clay, by Bengt B. Broms and M. V. Ratnam. (November, 1963. Prior discussion: None. Discussion closed.) by T. S. Nagaraj . . . . .	193

	Page
Dissipation of Elastic Wave Energy in Granular Soils, by J. R. Hall, Jr., and F. E. Richart, Jr. (November, 1963. Prior discussion: May, 1964. Discussion closed.)	
by B. O. Hardin . . . . .	195
by H. A. B. Rao . . . . .	196
Load Transfer in a Step-Taper Pile, by E. D'Appolonia and J. A. Hribar. (November, 1963. Prior discussion: None. Discussion closed.)	
by K. V. Swaminathan . . . . .	199
Importance of Free Ends in Triaxial Testing, by P. W. Rowe. (January, 1964. Prior discussion: None. Discussion closed.)	
by A. Fagnoul . . . . .	203
Concept of Curtain Grouting Evaluation, by Leland F. Grant. (January, 1964, Prior discussion: None. Discussion closed.)	
by John S. Winefordner . . . . .	207