## CONTENTS

Velocity Measurement of Free-Fall SPT Hammer   by William D. Kovacs 1
<b>One-Dimensional Consolidation Problems</b> by Roy E. Olson and Charles C. Ladd
Uplift Testing of Model Drilled Shafts in Sand by Fred H. Kulhawy, David W. Kozera, and James L. Withiam 31
Undrained Shear Tests on Clays by Jean H. Prévost
Silicate-Stabilized Sands by G. Wayne Clough, William M. Kück, and Gyimah Kasali 65

## **TECHNICAL NOTES**

Proc. Paper 14277

<b>CWPEEF's Views on Earthquake-Re</b> by Walter F. Anton																	85
Hydraulic and Electro-Osmotic Pern by Panchanatham N. Sundaram	iea	ıbi	ilit	y	С	oe	ff	ici	ier	nts							

This Journal is published monthly by the American Society of Civil Engineers. Publications office is at 345 East 47th Street, New York, N.Y. 10017. Address all ASCE correspondence to the Editorial and General Offices at 345 East 47th Street, New York, N.Y. 10017. Allow six weeks for change of address to become effective. Subscription price to members is \$12.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. GT, HY.

The Society is not responsible for any statement made or opinion expressed in its publications.

## DISCUSSION

## Proc. Paper 14269

Foundation Performance of Tower of Pisa, <sup>a</sup> by James K. Mitchell, Vitoon Vivatrat, and T. William Lambe (Mar., 1977. Prior Discus- sions: Jan., Feb., 1978). by Gerald A. Leonards	95
Time- and Stress-Compressibility Interrelationship, by Gholamreza Mesri and Paul M. Godlewski (May, 1977. Prior Discussions: Jan., Apr., 1978). <i>closure</i>	106
Time-Dependent Stress-Strain Behavior of Silicate-Grouted Sand, by J. Peter Koenzen (Aug. 1977. Prior Discussion: June, 1978). closure	114
Membrane Penetration and Its Effect on Pore Pressure, <sup>*</sup> by Manfred Kiekbusch and Bernd Schuppener (Nov., 1977). by Etienne Flavigny and Félix Darve	115
Cross-Hole and Down-Hole V <sub>s</sub> by Mechanical Impulse, <sup>*</sup> by Bruce Auld (Dec., 1977). by Jorge H. Troncoso	118
<b>Design for Railroad Ballast and Subgrade Support</b> , <sup>*</sup> by Gerald Patrick Raymond (Jan., 1978. Prior Discussion: Nov., 1978). by Leslie L. Karafiath	118
Stress Distribution around Batter Piles, by Biskur K. Ramiah and Laderpet S. Chickanagappa (Feb., 1978). errata	121
Seismic Site Response of Nonlinear Soil Media, <sup>a</sup> by Peter W. Taylor and Thomas J. Larkin (Mar., 1978. Prior Discussion: Dec., 1978). by William B. Joyner and Albert T. F. Chen by K. Rainer Massarsch and Vincent P. Drnevich	
Consolidation Theory for Cyclic Loading, <sup>*</sup> by Mohsen M. Baligh and Jacques N. Levadoux (Apr., 1978). by Cetin Soydemir	127

<sup>&</sup>lt;sup>a</sup>Discussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.