CONTENTS

| Structural Grouting of Oroville Dam Coreblock | | | | | |
|--|-----|---|-----|-----|---------------|
| by John E. O'Rourke | • • | • | • • | • • | 367 |
| Application of Energy Method by Karel Karal | | | | | 381 |
| | | | | | |
| Densification and Hysteresis of Sand under Cyclic Shear | | | | | |
| by Vicente Cuellar, Zdeněk P. Bažant, Raymond J. Krizek, | | | | | |
| and Marshall L. Silver | | • | • • | • • | 399 |
| Time- and Stress-Compressibility Interrelationship | | | | | |
| by Gholamreza Mesri and Paul M. Godlewski | | • | | | 417 |
| Energy Method for Soil Stability Analyses | | | | | |
| by Karel Karal | | • | | ••• | 431 |
| Stress State Variables for Unsaturated Soils | | | | | |
| by Delwyn G. Fredlund and Norbert R. Morgenstern | | • | | | 447 |
| Stability Coefficients for Sidehill Benches | | | | | |
| by Yang H. Huang | | • | | | 467 |
| | | | | | |
| | | | | | \rightarrow |

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 12895

| Importance of Groove Spacing in Tunnel Boring Machine Operations, | |
|--|-----|
| by Parviz F. Rad (Sept., 1975. Prior Discussions: Oct., 1976). | |
| closure | 485 |
| Cyclic Triaxial Strength of Standard Test Sand, ^a by Marshall L. Silver, Clarence K. Chan, Richard S. Ladd, Kenneth L. Lee, Drew A. Tiedemann, Frank C. Townsend, Julio E. Valera, and James H. Wilson (May, 1976. Prior errata: Oct., 1976). by Yo. Y. Cho | 490 |
| New York's Glacial Lake Formation of Varved Silt and Clay, ^a by James D. Parsons (June, 1976. Prior Discussions: Apr., 1977). | |
| by William F. Swiger | 493 |
| Load Transfer and Hydraulic Fracturing in Zoned Dams, ^a by Fred H. Kulhawy and Thomas M. Gurtowski (Sept., 1976). | |
| by Spyros Cavounidis | |
| Lateral Earth Pressure at Rest in Soft Clay, ^a by K. Rainer Massarsch and Bengt B. Broms (Oct., 1976). | |
| by Mehmet A. Sherif and Isao Ishibashi | 498 |

INFORMATION RETRIEVAL

The key words, abstract, and reference "cards" for each article in this Journal represent part of the ASCE participation in the EJC information retrieval plan. The retrieval data are placed herein so that each can be cut out, placed on a 3×5 card and given an accession number for the user's file. The accession number is then entered on key word cards so that the user can subsequently match key words to choose the articles he wishes. Details of this program were given in an August, 1962 article in CIVIL ENGINEERING, reprints of which are available on request to ASCE headquarters.

^aDiscussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.