VOL. 114 NO. 12, DEC. 1988

ISSN 0733-9410 CODEN: JGENDZ

# Journal of Geotechnical Engineering

AMERICAN SOCIETY OF CIVIL ENGINEERS

### General Information

Journal of Geotechnical Engineering covers the field of soil mechanics and foundations, with special emphasis on the relationship between the geologic environment and man-made works. Computer applications are also examined. Topics include dynamic response of foundations, earth-retaining structures, earthsupported structures, and dam construction and slope stability, as well as soil failures and their solutions.

Journal of Geotechnical Engineering (ISSN 0733-9410) is published monthly by the American Society of Civil Engineers. Publications office is at 345 East 47th Street, New York, NY 10017-2398. All editorial correspondence should be directed to the Journals Department. Second-class postage is paid at New York, NY, and at additional mailing offices.

Postmaster: Send address changes to Journal of Geotechnical Engineering, ASCE, 345 East 47th Street, New York, NY 10017-2398.

Submission of papers. Submit five copies of papers and notes and three copies of discussions to the Journals Department. Maximum length for papers is 10,000 words; for notes, 2,500 words; for discussions, 1,250 words. Multiple submissions are not accepted for review. Indicate division and, if applicable, committee to which material is being submitted. The use of SI units is preferred; if other units are used, SI equivalents must also be given. Write or phone the Journals Department for ASCE Authors' Guide to Journals, Books, and Reference Publications for complete instructions for manuscript preparation.

Reprints for authors are ordered prior to publication; others may order them by using the coupon published in ASCE News and ASCE Publications Information or contacting the Reprint Department, ASCE.

Photocopies. Authorization to photocopy internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by ASCE to libraries and other users registered with the Copyright Clearance Center, (CCC) Transactional Reporting Service, provided that the base fee of \$1.00 per article plus \$.15 per page is paid directly to CCC, 27 Congress Street, Salem, MA 01970. The identification for Journal of Geotechnical Engineering is 0733-9410/88 \$1.00 + \$.15. Requests for special permission or bulk copying should be addressed to the Journals Reprint Department, ASCE.

Subscriptions. 1988 rates are \$26.00 for members and \$104.00 for nonmembers. Postage outside the U.S.A. is \$8.50 additional. Single copies are \$11.00. Address all member subscription inquiries and correspondence to Member Records, ASCE. Address all nonmember inquiries and correspondence to Publications Fulfillment Department, ASCE. Subscriptions are filled for the calendar year and must be prepaid. Notify the appropriate ASCE department of an address change as soon as possible; allow six weeks for it to become effective.

This publication is abstracted in ASCE Publications Information (bimonthly), Transactions of the ASCE (annually), and Civil Engineering Database (online), and indexed in ASCE Annual Combined Index. Address inquiries to Information Products, ASCE.

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

Copyright @1988 by American Society of Civil Engineers.

# Journal of

# **Geotechnical Engineering**

Volume 114 Number 12 December 1988

## TECHNICAL PAPERS

Study of Soil-Root Interaction.  Tien H. Wu, Ronald M. McOmber, Ronald T. Erb, and Philip E. Beal
In Situ Shear Test of Soil-Root Systems.  Tien H. Wu, Philip E. Beal, and Chinchun Lan
Liquefaction Resistance of Artificially Cemented Sand.  Surendra K. Saxena, Krishna R. Reddy, and Anestis S. Avramidis
Analyses of Dam Failures in 1985 Chilean Earthquake.  Pedro De Alba, H. Bolton Seed, Eugenio Retamal, and Raymond B. Seed
TECHNICAL NOTES
Earthquake-Induced Shear Stresses in Soils.  Kingsley O. Harrop-Williams
Seismically Induced Flow Slide on Centrifuge.  K. Arulanandan, C. Yogachandran, K. K. Muraleetharan,  B. L. Kutter, and C. S. Chang
Discussions
Postconstruction Deformation of Rockfill Dams. Oscar Dascal.  By Timothy McCleskey. By Ervin Nonveiller.  Closure by author
Uplift of Anchor Plates in Sand. E. J. Murray and James D. Geddes.
By M. C. Wang. Closure by authors1460

Dilatometer Testing on Highly Overconsolidated Soils. Alireza Boghrat.	
By Paul W. Mayne. Closure by author	1462
End of Year Index	1467