

B '97

SYMPOSIUM IN PRINT

Pre-failure Deformation Behaviour of Geomaterials

VOLUME XLVII NUMBER 3

AUGUST 1997

THE INSTITUTION OF CIVIL ENGINEERS
LONDON



GÉOTECHNIQUE
VOLUME XLVII NUMBER 3
AUGUST 1997

CONTENTS

Anisotropy of G_9 shear stiffness in Gault Clay. D. S. PENNINGTON, D. F. T. NASH and M. L. LINGS	391
Laser interferometry to evaluate the performance of local displacement transducers. G. HEYMANN, C. R. I. CLAYTON and G. T. REED	399
Some anisotropy stiffness characteristics of a silt under general stress conditions. L. ZDRAVKOVIC and R. J. JARDINE	407
Deformation characteristics of a sedimentary soft mudstone from triaxial compression tests using rectangular prism specimens. K. HAYANO, T. SATO and F. TATSUOKA	439
Wave velocity and stiffness measurements of the Crag and Lower London Tertiaries at Sizewell. D. W. HIGHT, J. D. BENNELL, B. CHANA, P. D. DAVIS, R. J. JARDINE and E. POROVIC	451
Small-strain stiffness of reconstituted clay compressed along constant triaxial effective stress ratio paths. S. RAMPELLO, G. M. B. VIGGIANI and A. AMOROSI	475
Yielding and pre-failure deformation of structured sands. T. CUCCOVILLO and M. R. COOP	491
Inherent and stress-state-induced anisotropy in very small strain stiffness of a sandy gravel. G. L. JIANG, F. TATSUOKA, A. FLORA and J. KOSEKI	509
The influence of structure on the pre-failure behaviour of a natural clay. F. COTECCHIA and R. J. CHANDLER	523
Stiffness of coarse-grained soils at small strains. V. JOVIČIĆ and M. R. COOP	545
Modelling of non-linear deformation properties of stiff geomaterials. Y. KOHATA, F. TATSUOKA, L. WANG, G. L. JIANG, E. HOQUE and T. KODAKA	563
Viscoplastic behaviour of soft clay. A. FODIL, W. ALOULOU and P. Y. HICHER	581
Elastic shear modulus of soft clays from shear wave velocity measurement. S. SHIBUYA, S. C. HWANG and T. MITACHI	593
Shear modulus and damping of soils. D. C. F. LO PRESTI, M. JAMIOLKOWSKI, O. PALLARA, A. CAVALLARO and S. PEDRONI	603
Displacements of bridge foundations on sedimentary soft rock: A case study on small-strain stiffness. K. IZUMI, M. OGIHARA and H. KAMEYA	619

Continued on inside back cover

