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These two volumes present the proceedings of the Skempton Conference, March 2004, organised by the British Geotechnical Association (BGA), the Geological Society of London and the Institution of Civil Engineers (ICE).

Bearing in mind the conference's commemorative theme, the first volume reprints the Royal Society of London's short biographical memoir on Professor Sir Alec Skempton and offers a set of invited articles that reflect on his contributions to engineering geology, slope stability and the history of civil engineering. Following on from these short introductory commemorative sections, the main body of the first volume is taken up by five major keynote papers written by a team of international experts that survey the enormous advances that have taken place in geotechnical engineering since Skempton's pioneering early work and papers from the first session.

The second volume contains more than 80 articles that report research and advances in practice from around the world. The papers focus on the broad range of geotechnical issues that most interested 'Skem' and are grouped under the headings of: Soil behaviour, characterisation and modeling; Foundations; Slopes and embankments; Ground performance; The influence of geology on civil engineering.

Ключевые слова:

Содержание.

"Sir Alec Westley Skempton: a biographical memoir" by R.J. Chandler /

Conference perspectives /

"The making of the Skempton Archive" by A. Barrett /

"Mangla revisited" by N. Ambraseys /

"Birth of theory" by R.B. Peck /

"Reflections on Skempton's contribution to the study of slopes" by N.R. Morgenstern /

"Alec W. Skempton and Laurits Bjerrum. A long-time friendship between Imperial College and NGI" by S. Lacasse and K. Hoeg /

"Skempton's contribution to engineering geology, particularly of the quaternary" by J.N. Hutchinson and P.G. Fookes /

"Diriges par des phares: some thoughts on the historical work of Professor Sir Alec Skempton" by M. Chrimes /

Keynote papers /

"Geotechnical characterisation of soils and rocks: a geological perspective" by R.J. Chandler, M.H. de Freitas and P. Marinos /

"Developments in understanding soil behaviour" by R.J. Jardine, A. Gens, D.W. Hirsh and M.R. Coop /

"Load carrying capacity of foundations" by M.F. Randolph, M.B. Jamiołkowski and L. Zdravkovic /

"Then and now: some comments on the design and analysis of slopes and embankments" by P.R. Vaughan, N. Kovacevic and D.M. Potts /

"Ground performance and building response due to tunnelling" by J.B. Burland, R.J. Mair and J.R. Standing /

1. Soil behaviour, characterisation and modelling /

"Long-term effect of secondary consolidation on consolidation settlement of marine clays" by H. Aboshi /

"The mechanical behaviour of normally consolidated tills with reference to their structure" by M.P. Baranski /

"A hollow cylinder apparatus to study the cyclic loading behaviour of dry granular material" by S.F. Brown and I.R. Richardson /

"Design parameters for a cohesive soil from laboratory tests" A. Cavallaro, M. Maugeri and A. Ragusa /

"The effect of particle shape on the behaviour of goa tailings" by C.R.I. Clayton, M. Theron and N.J. Vermeulen /

"Prediction of the mechanical behaviour of Mexico City clay: preconsolidated undrained case" by R. Rivera-Constantino, E. Juarez-Badillo and R. Villa-Escobar /

"A geological and geotechnical characterisation of the loess of northern France" by Y.J. Cui, D. Marcial, J.-M. Terpereau, P. Delage, G. Marchadier, P. Antoine and W.-M. Ye /

"A comparative study between liquefaction and instability of sand" by A. Eliadorani /

"An investigation of the mechanisms which control soil behaviour at fast rates of displacement" by R.E. Fearon, R.J. Chandler and J.J. Bommer /

"Laboratory measurement of the permeability of Oxford Clay assisted by a self-boring device" by C.C. Hird and S. Srisakthivel /

"Influence of cement type on G₀ of a carbonate sand" by M. Ismail, C. Ferreira and M. Fahey /
 "Anisotropy and destructuration of Murro clay" by M. Karstunen and M. Koskinen /
 "Inherent anisotropic stiffness of decomposed tuff and alluvium" E.H.Y. Leung and C.W.W. Ng /
 "Evaluation of the Sydney Soil Model" by M.D. Liu and J.P. Carter /
 "Shear behaviour of pre-existing shear zones under fast-loading" L.J.L. Lemos and P. Vaughan /
 "Relationship between clay mineralogy and residual shear strength through the model based on shearing mechanism of soil" H. Marui and B. Tiwari /
 "Shear resistance of Biotite-Schist: Peak and post-peak behaviour" F.S. de Mello, G.R. Sadowski and C.M. Nieble /
 "Measurement of strain rate effects on dynamic soil properties" J. Meng and G.J. Rix /
 "The induced anisotropy of Leighton Buzzard sand" by P.J. Naughton and B.C. O'Kelly /
 "Geotechnical properties of British estuarine clays: towards a geological framework" by M.A. Paul, B.F. Barras and J.E. Mein /
 "Mechanical behaviour of highly fissured sheared clay shales" by L. Pucarelli and L. Olivares /
 "Electro-hydrodynamic transport in porous materials" by P. Pivonka and D. Smith /
 "Soil behaviour: the role of particle shape" by J.C. Santamarina and G.C. Cho /
 "Shear strength of undisturbed samples of weathered pumice soils" by M. Shimizu /
 "The structure of soil" G. Sills, G. Bartholomeeusen, M. Harbottle, G. Lear and D.G. Lintern /
 "The influence of fines on the dynamic properties of sands" by T. Tika, P. Kallioglou, A. Papadopoulou and K. Pitilakes /
 "Combined SEM and computerized image analysis of clay soils microstructure: technique & application" by J. Trzcinski /
 "Influence of Sodium Chloride on index properties and residual shear strength of natural soil and pure minerals" by G.R. Tuladhar, H. Marui and B. Tiwari /