

Indian Geotechnical Journal

Volume 46 · Issue 3 · September 2016

ARTICLE OF PROFESSIONAL INTEREST

Editorial

Special Issue on "Application of Mechanics of Unsaturated Soils in Conventional Geotechnical Practice"

S.K. Vanapalli · L.R. Hoyos 207

ORIGINAL PAPERS

Water Permeability Function for Soils that Undergo Volume Change as Suction Changes

F. Zhang · D.G. Fredlund · G. Ward Wilson 210

Use of Dual Capillary Barrier as Cover System for a Sanitary Landfill in Singapore

H. Rahardjo · A. Satyanaga · F.R. Harnas · E.C. Leong 228

Swelling and Collapse of Unsaturated Soils Due to Inundation Under One-Dimensional Loading

M. Wijaya · E.C. Leong 239

Soil Suction Measurement of Unsaturated Soils with a Sensor Using Fixed-Matrix Porous Ceramic Discs

S. Tripathy · S. Al-Khyat · P.J. Cleall · W. Baille · T. Schanz 252

Modelling the Mechanical Properties of a Compacted Glacial Till

S.K. Vanapalli · Z. Han 261

Procedure to Estimate the Seismic Settlement of Partially Saturated Soils

M. Ghayoomi · J.S. McCartney 272

Effect of Pore-Water Surface Tension on Tensile Strength of Unsaturated Sand

P. Jindal · J. Sharma · R. Bashir 276

Influence of Mineral Montmorillonite on Soil Suction Modeling Parameters of Natural Expansive Clays

A. Pedraia · R. Acharya · I. Bheemasetti · A.J. Puppala · L.R. Hoyos 291

Mechanical Behaviour of a Compacted Residual Soil of Gneiss from Brazil under Constant Water Content Condition

O.M. de Oliveira · P. Li · F.A.M. Marinho · S.K. Vanapalli 299

Incorporating Temperature Effects in Soil-Water Characteristic Curves

P. Roshanl · J.A.I. Sedano 309

Determination of Swelling Characteristics Using Soil Water Characteristic Curve Parameter

J. Tahasiidar · B.H. Rao 319

TECHNICAL NOTE

Effect of Fertilizers and Fly Ash Addition on Suction–Water Content Relationship of a Sandy Soil

C. Malaya · S. Sreedeep 327

Further articles can be found at link.springer.com

Indexed/abstracted in Google Scholar, OCLC, Summon by Serial Solutions

Instructions for Authors for *Indian Geotech J* are available at
<http://www.springer.com/40008>