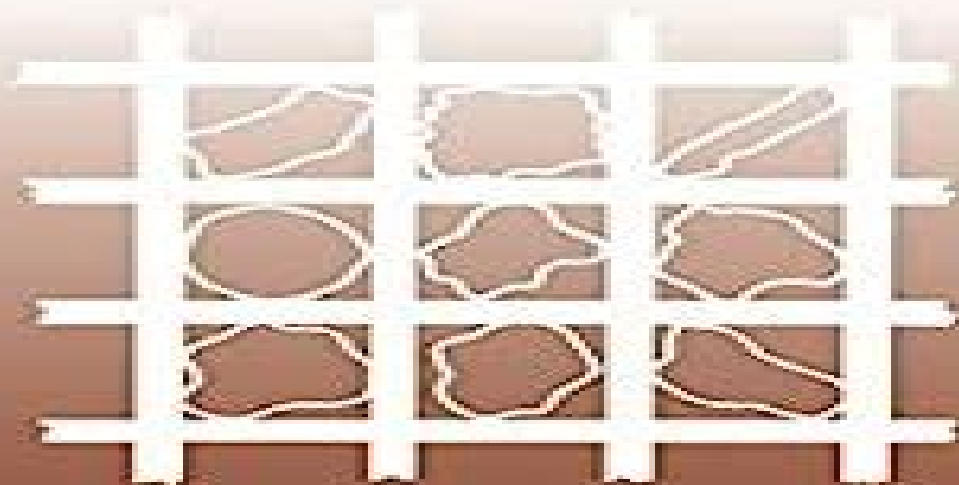


Soil Behaviour and Critical State Soil Mechanics



David Muir Wood

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David Muir Wood (Bauingenieur)



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Soil Behaviour and Critical State Mechanics David Muir Wood, 1990 Critical State Behaviour of an Agricultural Soil, 1996 Soils bear natural and artificial structures and sustain agricultural and biological activities Understanding soil behaviour is the key to appropriating the benefits derivable from this material Engineers are usually interested in the mechanical aspect of soil behaviour This involves the study of volume change and shear response to applied stresses In the past soil shear and volume change behaviour were studied independently But many practical problems involve shearing accompanied by volume change therefore it is desirable to consider this interaction

in modelling soil behaviour The critical state theory Roscoe et al 1958 was developed to combine both shear and volume change behaviour of soils Early soil mechanics theories including the critical state theory were developed for saturated soils Because unsaturated soils are encountered in many situations there is the need to adapt earlier theories or to formulate new ones for unsaturated soils The major differences in the physical behaviour of saturated and unsaturated soils are due to an internal stress called matric suction formed at the air water interface in the soil pores Theories developed for unsaturated soil mechanics are based on the inclusion of the effect of matric suction on soil behaviour In this study the applicability of two major frameworks i e critical state theory and unsaturated soil mechanics to the study of agricultural soil behaviour was investigated Soil behaviour was considered within a modified critical state framework that permits the application of critical state theories to an unsaturated soil An experimental program involving tests in a modified state of the art triaxial testing system was undertaken Critical state soil parameters were obtained and state boundaries identified The role of matric suction and soil structure on state parameters are presented Changes in matric suction caused a shift translation in state boundaries while changes in structure cause

Modern Trends in Geomechanics Wei Wu, Hai-Sui Yu, 2006-11-22 This book is loaded with rich and stimulating articles by a roster of brilliant scholars reflecting some recent trends in the frontier research of geomechanics This collection of 32 contributions stems from an international workshop on Modern Trends of Geomechanics held in Vienna The contributions span a wide range of topics and an enormous range of physical scales from micromechanics at grain scale to engineering problems at large scale from laboratory and field testing over constitutive modelling to numerical analysis The key features of this book are thermodynamics multiphase continua and transport phenomena constitutive modelling localized bifurcation micropolar theory unsaturated soil viscous and cyclic behaviour numerical and analytical methods discrete element method micromechanics grain crushing and damage laboratory and field testing foundation and mining engineering This book will be rewarding for anyone interested in the frontier research in geomechanics and geotechnical engineering appealing to graduate students researchers and engineers alike

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Structures and Granular Solids Jian-Fei Chen, J.Y. Ooi, J.G. Teng, 2008-06-23 This volume features 29 invited papers presented at the Royal Society of Edinburgh on 1 2 July 2008 by colleagues collaborators students and friends of Professor J Michael Rotter FREng FRSE FICE FASCE FISTructE FIEAust in honour of his 60th birthday The articles published in this volume will be of great value to readers as it contains con

Predictive Soil Mechanics Peter Wroth, 1993 This volume contains the 49 papers which form the proceedings of the Wroth Memorial Symposium The themes of the symposium were soil properties and their measurement especially means of in situ tests prediction and performance and design methods

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