

## Chapter 9

# *A Critical State Soil Model for Cyclic Loading*

*J. P. Carter, J. R. Booker, and C. P. Wroth*

### SUMMARY

Recently, several sophisticated constitutive models have been proposed for the prediction of the behaviour of soils under cyclic loading. In this paper the concepts of critical state soil mechanics have been used to develop a simple model which predicts many aspects of clays under repeated loading. The model employs the parameters that are usually associated with the Cam-clay family of models together with an additional parameter which characterizes the cyclic behaviour. This parameter can conveniently be determined by performing cyclic triaxial tests under undrained conditions.

The behaviour of soils which are either initially normally or initially overconsolidated is investigated for stress-controlled and strain-controlled loadings in the triaxial test. The results of this theoretical investigation show encouraging agreement with the results of laboratory tests on saturated clays.<sup>1,2,30</sup>

### 9.1 INTRODUCTION

A problem of considerable importance in geotechnical engineering is that of the prediction of the behaviour of soils under repeated loading. The necessity of understanding the response of soil under earthquake conditions has long been appreciated, but more recently the problems of offshore technology have accentuated the need for adequate descriptions of this aspect of soil behaviour. Highway engineers have also been interested in the response of soil and pavement materials to repeated loads of the type caused by rolling vehicles, and testing of these materials under simulated loading conditions has been carried out in the laboratory, e.g. Monismith, Ogawa, and Freeme.<sup>11</sup>

There exists a considerable body of data on the behaviour of sands under cyclic loading conditions<sup>8,18,24,28</sup> and engineering theories have been developed for particular classes of problems.<sup>10,19,26,27</sup>

Recently, data for the behaviour of clays under cyclic loading have been obtained.<sup>1-5,9,21,23,29-33</sup> Although the conclusions of these examinations are

# Soil Mechanics Transient And Cyclic Loads Constitutive Relations And Numerical Treatment

**Wai-Fah Chen, Atef F. Saleeb**



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*Soil Mechanics, Transient and Cyclic Loads* G. N. Pande, O. C. Zienkiewicz, 1982-07-13 The first part Chapters 1-5 deals with the essential aspect of formulating the mechanics of transient dynamic behaviour for loading of various frequencies Chapters 6-18 deal with the crux of the matter  
Preface  
**Micromechanics of Granular Materials** Massao Satake, J.T. Jenkins, 2013-10-22 This proceedings volume contains papers from researchers in Japan the United States and England who have made fundamental contributions to the micromechanics of granular materials The purpose of the seminar was to facilitate an exchange of ideas between scientists working with statistical and continuum theories computer simulations and experiments on both static and dynamic behaviour In describing the solid like behaviour of granular materials many new ideas on the constitutive relations are introduced in this volume As an application of the analysis the mechanism of liquefaction is discussed Computer simulations have become a vital tool in establishing the micromechanical approaches which otherwise would not be experimentally tested In numerical simulations and theoretical analyses of rapid granular flow various modifications on the nature of materials and boundaries are given Possible applications of the techniques of the stereology and analysis based on geometrical statistics are also included The papers collected in this volume signify that the promotion of a good understanding of the mechanics of granular materials has been and will continue to be valued in a variety of technical disciplines  
*Geomechanical Modelling in Engineering Practice* R. Dungar, J.A. Studer, 2021-06-23 The key to successful solution of problems by the finite element method lies in the choice of appropriate numerical models Numerical modelling of selected engineering problems Specific numerical models parameters evaluation  
**Seismic Ground Response Analysis** Nozomu Yoshida, 2014-11-17 This book presents state of the art information on seismic ground response analysis and is not only very valuable and useful for practitioners but also for researchers The topics covered are related to the stages of analysis 1 Input parameter selection by reviewing the in situ and laboratory tests used to determine dynamic soil properties as well as the methods to compile and model the dynamic soil properties from literature 2 Input ground motion 3 Theoretical background on the equations of motion and methods for solving them 4 The mechanism of damping and how this is modeled in the equations of motions 5 Detailed analysis and discussion of results of selected case studies which provide valuable information on the problem of seismic ground response analysis from both a theoretical and practical point of view  
**Deformation Characteristics of Geomaterials / Comportement Des Sols Et Des Roches Tendres** H. Di Benedetto, T. Doanh, H. Geoffroy, C. Sauzeat, 2003-01-01 The main themes of this conference are experimental investigations into deformation properties from very small strains to beyond failure laboratory in situ and field observation interpretations and behaviour characterization and modelling Emphasis is placed on exploring recent investigations into time related stresses and on applying advanced geotechnical testing to real engineering problems  
*Unsaturated Soils, Two Volume Set* Eduardo E. Alonso, Antonio

Gens,2010-09-02 In recent decades the development of unsaturated soil mechanics has been remarkable resulting in momentous advances in fundamental knowledge testing techniques computational procedures prediction methodologies and geotechnical practice The advances have spanned the full spectrum of theory and practice In addition unsaturated materials exhibiting complex behaviour such as residual soils swelling soils compacted soils collapsing soils tropical soils and solid wastes have been integrated in a common understanding of shared behaviour features It is also noteworthy that unsaturated soil mechanics has proved surprisingly fruitful in expanding to other neighbouring areas such as swelling rocks rockfill mechanics and freezing soils As a consequence geotechnical engineering involving unsaturated soils can be now approached from a more rational and systematic perspective leading towards an improved and more effective practice Unsaturated Soils contains the papers presented at the 5th International Conference on Unsaturated Soil Barcelona Spain 6 8 September 2010 They report significant advances in the areas of unsaturated soil behaviour testing techniques constitutive and numerical modelling and applications The areas of application include soil atmosphere interaction foundations slopes embankments pavements geoenvironmental problems and emerging topics They are complemented by three keynote lectures and three general reports covering general issues of modelling testing and applications Unsaturated Soils is a comprehensive record of the state of the art in unsaturated soil mechanics and a sound basis for further progress in the future The two volumes will serve as an essential reference for academics researchers and practitioners interested in unsaturated soils

**Perspectives on Earthquake Geotechnical Engineering** Atilla Ansal,Mohamed Sakr,2015-04-15 This book offers a broad perspective on important topics in earthquake geotechnical engineering and gives specialists and those that are involved with research and application a more comprehensive understanding about the various topics Consisting of eighteen chapters written by authors from the most seismic active regions of the world such as USA Japan Canada Chile Italy Greece Portugal Taiwan and Turkey the book reflects different views concerning how to assess and minimize earthquake damage The authors a prominent group of specialists in the field of earthquake geotechnical engineering are the invited lecturers of the International Conference on Earthquake Geotechnical Engineering from Case History to Practice in the honour of Professor Kenji Ishihara held in Istanbul Turkey during 17 19 June 2013 *Abstract Journal in Earthquake Engineering* ,1985 **Near-surface Geophysics** Dwain K. Butler,2005 Near Surface Geophysics SEG Investigations in Geophysics Series No 13 presents concepts and fundamentals of near surface geophysics in Part 1 and applications and case histories in Part 2 Dedicated to Stanley H Ward Near Surface Geophysics updates and extends the scope of his landmark three volume book Geotechnical and Environmental Geophysics published by SEG in 1990 Part 1 of Near Surface Geophysics contains innovative material on magnetic and electrical methods subsurface geophysics near surface seismology electromagnetic induction and ground penetrating radar Part 2 emphasizes the determination of physical properties the prevalence of multimethod surveys and integrated interpretations and the increasing use of model based survey planning execution and interpretation Near Surface Geophysics a peer

reviewed book will be of interest to practitioners and students     Journal of Geotechnical Engineering ,1986

**Constitutive Equations for Engineering Materials** Wai-Fah Chen, Atef F. Saleeb, 1994 Hardbound Volume 2 extends the elasticity based stress strain models to the plastic range and develops plasticity based models for engineering applications and is divided into four parts Parts one and two contain a sufficient comprehensive treatment of the classical theory of plasticity and its applications to metal structures Parts three and four present a state of the art coverage of concrete plasticity and soil plasticity     Constitutive Laws for Engineering Materials, with Emphasis on Geologic Materials

Chandrakant S. Desai, Hema J. Siriwardane, 1984     **National Union Catalog, 1982** ,1983     *National Union Catalog* ,1982 Includes entries for maps and atlases     **Dokumentation Rheologie** ,1984     Library of Congress Catalogs Library of Congress, 1983     Implementation of Computer Procedures and Stress-strain Laws in Geotechnical Engineering

Chandrakant S. Desai, Surendra Kumar Saxena, 1981     **Proceedings, the 4th International Conference on the Bearing Capacity of Roads and Airfields** ,1994     **Third International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics [proceedings]** Shamsher Prakash, 1995

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