

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.^{1,2,30}

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.¹¹

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

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

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