

عنوان مقاله:

The Effect of Using Hyper-Elastic Theories to Improve the Prediction of SANICLAY Constitutive Model

محل انتشار:

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خلاصه مقاله:

Most of constitutive models which today are used to predict soft clays behavior are not capable to accurately predict the mechanical behavior of highly over-consolidated clays. A reason behind this deficiency may be attributed to the use of hypo-elastic theories in order to simplify the elastic response of clays. In practice, this phenomenon may lead to unsafe design of infrastructures. In this paper, predictions obtained by a recently proposed clay model are compared with the experimental data and its limitations are discussed. Then it is shown that modifying this constitutive model according to the various hyperelasticity theories improves the predictive capacity of the model

کلمات کلیدی:

Constitutive Model, Soft Clays, Over-consolidation, Elastic Behavior, SANICLAY

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