

عنوان مقاله:

Calibration of generalized hypoplastic soil constitutive model parameters for Firuzkuh standard sand No. 161

محل انتشار:

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خلاصه مقاله:

In this essay, data from a set of laboratory experiments on Firuzkuh sand soil No. 161 was given whereby the parameters of a general soil constitutive model called hypoplastic soil model have been estimated. Hypoplasticity is an inelastic and incrementally nonlinear constitutive model without any yield surface and separation of strain rate into elastic and plastic portions, ergo it can appropriately simulate the soil behavior in both small and large strain as well as unloading -reloading paths. In addition, this model requires only eight constitutive parameters uniquely standing at the same value for all densities of a particular soil in all pressures. These parameters have been calibrated based on the standard laboratory experiments comprising monotonic and cyclic tri-axial and oedometer tests. Geotechnical engineers could benefit from the exclusively proposed parameters for analysis of different soil structures needless to accomplish any test on Firuzkuh soil No. 161

کلمات کلیدی:

Hypoplasticity, Calibration, Consolidation, Tri-axial

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