

# The Parametric Studies of Factors in Determining the Bearing Capacity of Piles & the General & Differential Amount of Settlements of Piled Raft Foundation

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چکیده :

In this paper, the behavior of piled raft foundation in contact with layered grain soil, using some modeling and considering the elastoplastic behavior (Mohr-Coulomb model) is analyzed for soils through the Three-dimensional finite element numerical software Plaxis3D Foundation. The purpose of compiling this paper is to parametrically study the effective factors in the behavior of this system in layered soils with the help of numerical analysis and via Plaxis3D foundation software, how they affect on general and differential settlements and the distribution of load among the piles and their share of load bearing in different arrangements considering the amount of the piles tip getting into different thickness of layered soil. Such studies are necessary to access optimized geometrical and mechanical features in design and economy in applying the group of piles and foundation at the same time in contact with soils. The results of these studies can suggest suitable solutions for designer engineers and lead their designs to the best modes

کلید واژه : (Piled Raft Foundation, Layered soil, Totality & Differential Settlement, Plaxis3D Foundation, Finite Element Method (FEM

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