

عنوان مقاله:

Static and Seismic Analysis of Pile in Dry and Saturated Soils

محل انتشار:

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خلاصه مقاله:

projects are designed and implemented a wide range of adverse geotechnical conditions of these projects should be implemented. Piles are structural members to carry loads in surface soil aggregates are used in lower levels. Following the deep remarkable forces in vertical, horizontal, and lack of suitable soil near the surface is inevitable and the rise in water level, the impact of the earthquake and the resulting dynamic loads are considered critical topic. In this study we have tried different examples of the deep foundation in which the soil type, soil density, soil stratum and boundary layer model, the variables have been modeled and applying a static constant force, while being affected by the earthquake and dynamic analysis using the ANSYS software. Results of force and the bending moment of piles wall and the vertical displacement caused in dry soil with saturated soil are compared

کلمات کلیدی:

Pile, Water, Seismic Analysis, ANSYS Software

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