

عنوان مقاله:

Lateral Soil-Pile Stiffness Subjected to Vertical and Lateral Loading

محل انتشار:

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خلاصه مقاله:

Soil-structure interaction is one of the most important factors in the analysis; especially for complicated problems such as piles are subjected to different loads. Owing to the sensitivity of pile design and analysis to geometry, loading type and soil behavior, it is unavoidable to consider the soil-structure interaction. Using subgrade reaction approach is one of the most practical methods in predicting the deflection and bearing capacity of piles subjected to lateral loads. Therefore, it is necessary to predict the exact value of modulus of subgrade reaction. Many full-scale pile tests have been performed in order to investigate the behavior of lateral resistance on cast-in-place concrete piles. Finite element (FE) methods) also can be applied to predict the variation of horizontal subgrade reaction

کلمات کلیدی:

Modulus of horizontal subgrade reaction, Back-analysis method, Lateral pile behavior, Soil-pile interaction

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