

عنوان مقاله:

VERIFICATION OF EXPERIMENTAL RESULTS OF IMPACT ROLLING USING ABAQUS SIMULATION AND
EVALUATING OF SOIL STIFFNESS UNDER SQUARE IMPACT ROLLER

محل انتشار:

ششمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1390)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

The development of the low-energy dynamic compaction process like impact roller for modest but rapid improvement Of the soil properties of sand soils has provided a viable and economical alternative to traditional Ground Improvement methods for derelict land. The concept of using the WAK (Wave Activated Stiffness (K) Test) to monitor the degree of improvement during the process has prompted a rigorous programme of ABAQUS modeling of impact roller to validate the method. Results from field tests and ABAQUS modeling have shown that Both zone of improvement agree well with theoretical values. This corroboration suggests that the soil stiffness, k , damping factor, C , mass of vibrated soil, M and depth of improvement, D , may also be predicted given sand Properties

کلمات کلیدی:

Impact Roller, Stiffness of Soil, WAK , ABAQUS Modeling

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