

عنوان مقاله:

Soil Improvement using 6 Sided Impact Roller

محل انتشار:

هشتمین کنگره ملی مهندسی عمران (سال: 1393)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

One group of devices for soil compaction are rollers. Static, Vibratory and impact rollers have the most practical applications among them. The latter has the greater depth of influence in comparison with the others. Hence, it has more effect in soil improvement than other traditional vehicles with fewer number of passes. So, numerical simulation of roller is suitable for recognizing its significant components. At to now, different shapes of rollers are examined in practice that have some problems in soil rehabilitation. In this paper, a new 6 sided impact roller is introduced and simulated with F.E.M based software ABAQUS . Furthermore, its similarity with hammer in W.A.K test is studied. Results show that with increasing the faces of roller, impact surface of roller is increased and depth of improvement will be greater than ever

کلمات کلیدی:

Sided Impact Roller, ABAQUS, WAK, Soil improvement 6

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