عنوان مقاله:
Effect of Fibers on Shear Strength of Clayey Soil

محل انتشار:
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خلاصه مقاله:
Soft soils are well known for their low strength and high compressibility. Several techniques such as reinforcement are usually used for increasing the strength and reducing deformation characteristics of this kind of soil. This paper presents the results of an experimental study on the influence of short, discrete and random fibers on the shear strength of a clayey soil. A series of triaxial compression tests were conducted in a conventional triaxial cell on samples of compacted clay and compacted mixed clay with discrete randomly distributed synthetic fiber. Comparison of the results show that the strength of clay soil increased with increasing the proportion of fibers.

کلمات کلیدی:
clayey soil, fiber, shear strength