

# عنوان مقاله:

Impact of Cement on Contaminated Clayey Soil Strength

محل انتشار: اولین کنفرانس بین المللی مهندسی عمران،معماری و بازآفرینی شهری (سال: 1398)

تعداد صفحات اصل مقاله: 9

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### خلاصه مقاله:

Soil stabilization is one of the important branches in geotechnical engineering. Since the contaminants leach into soil, the properties of soil are changed. Intense modification of soil geotechnical properties befalls between soil and oil. Also, the amount of variation in terms of Atterberg limits, uniaxial strength, and compaction is dependent on contaminant and soil type. The determination of the geotechnical properties of soils is a necessary procedure in the Geotechnical Engineering, especially in the presence of oil pollutant. Physical and physicochemical interactions are predominant in fine-grained soils, respectively. The Taguchi method is employed until the parameters would be examined exactly and commercially. The results show that the Atterberg limits, unconfined strength and compaction of the natural clay are deteriorated due to physical and physicochemical interaction with contaminant, respectively. .Finally, the results show which the Portland cements can improve the clay properties

## کلمات کلیدی:

Clayey soil, Contaminant, Gasoline, Atterberg limit, Unconfined strength, Taguchi

# لینک ثابت مقاله در پایگاه سیویلیکا:



