

**عنوان مقاله:**

BEHAVIOR OF CLAY SOIL MIXED WITH FINE SAND DURING CONSOLIDATION

**محل انتشار:**

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**خلاصه مقاله:**

Experimental test results were presented in this paper from a series of consolidation tests for clay soil and/or clay soil mixed with fine sand content of (0, 10, 20, 30, 40, 50, 60 and 80%). The fine sand content, at which the intergranular void ratio of the clay-fine sand mixture became equal to  $e_{max}$  of plain soil, was named as Transition Fine Sand Content (TFSC), occurred at (55-70)% fine sand content. Tests showed that, up to TFSC, compression behavior of the mixture is mainly controlled by clay soil. When concentration of fine sand content exceeds TFSC the fine sand control the behavior. Compression index  $C_c$ , swelling index  $C_s$ , coefficient of volume compressibility  $m_v$ , swelling pressure and swelling potential decrease as the fine sand content increase

**کلمات کلیدی:**

Clay-Sand mixture, Transition content, Compression Behaviour, Intergranular Void Ratio

**لینک ثابت مقاله در پایگاه سیویلیکا:**

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