

**عنوان مقاله:**

INFLUENCE OF ANISOTROPIC ELASTICITY ON LIQUEFACTION PREDICTIONS

**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 elastic response of granular media gradually becomes anisotropic when they are subjected to shear stress. Herein, a simple anisotropic elasticity theory is proposed. Then, the constitutive equations of a bounding surface plasticity model are generalized to include the possibility of the anisotropic elasticity. It is illustrated that the proposed anisotropic elasticity theory can explain the sudden loss of shear strength observed in sands liquefaction tests under cyclic loading.

**کلمات کلیدی:**

Liquefaction, Elasticity, Anisotropy, Constitutive Equation, Fabric, Dilatancy

**لینک ثابت مقاله در پایگاه سیویلیکا:**

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