

# Unsaturated soil mechanics applied to expansive soils

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چکیده :

The shrinkage and swelling of clayey soils is a natural hazard, which may significantly affect buildings. The foundation settlement caused by this geohazard for buildings constructed on expansive soils undergoing a drought period was studied. A soil–structure interaction model is proposed. The hydromechanical coupling is taken into account by using the state surface approach. The settlement is evaluated according to building stiffness, ground hydro–mechanical properties, suction variation on surface, suction profile and foundation depth

کلید واژه : Unsaturated Soils, Expansive Soils, Foundation

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