

## PERMANENT DISPLACEMENT OF SAND WITH CYCLIC LOADING

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**ABSTRACT:** This paper presents a numerical model for calculating permanent strains and stresses in sand caused by cyclic loading. The model is fitted to the results of drained static and cyclic triaxial tests. The model can predict permanent stresses and strains resulting from drained or undrained cyclic loading under various boundary conditions. Predictions of the model are compared with experimental results from cyclic odometer tests and cyclic undrained triaxial tests. Good correlation exists between the predicted and measured response.

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