

عنوان مقاله:

Application of Geotechnical Centrifuge in Modeling of Flexible Buried Pipes

محل انتشار:

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خلاصه مقاله:

The behavior of flexible buried pipes is a complex soil-structure interaction problem. Physical modeling using geotechnical centrifuge is time saving as well as economical method in studying of pipe soil interaction. The primary objective of this study was to investigate the response of flexible buried pipes due to line loading. All tests were done at 60g to represent a prototype pipe of 3 m diameter. Model pipes were instrumented with ten miniature strain gauges. Line loading was provided by using steel bars. Centrifuge results showed that line loading has more effect on the hoop stresses at the crown and shoulder of the model pipes.

کلمات کلیدی:

Centrifuge, Flexible buried pipe, Line loading

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