عنوان مقاله:

Comparison Behavior of Pile-Supported Wharves under Monotonic and Cyclic Lateral Load

محل انتشار:

هفتمین همایش بین المللی سواحل، بنادر و سازه های دریایی (سال: 1385)

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خلاصه مقاله:

Pile supported wharf structures are include a concrete slab which supported on substructure from some elements including pile and embankment, soil maintenance structure and other elements. For comparison performance of pile and deck under monotonic and cyclic lateral loading; pile and deck structure with determined geotechnical and structural specifications being under increase lateral monotonic and cyclic load. In modeling of structures, soil-structure interaction was modeled with P-Y curve (Matlock. 1970) and these structures were taken under different surcharge. Structures under cyclic load due to small lateral displacement receive to critical state in comparison with structure under monotonic loading. In addition, those structures with larger surcharge may tolerate greater lateral deforming under same force.

کلمات کلیدی:

monotonic loading, cyclic loading, pile supported wharf, P-Y curve