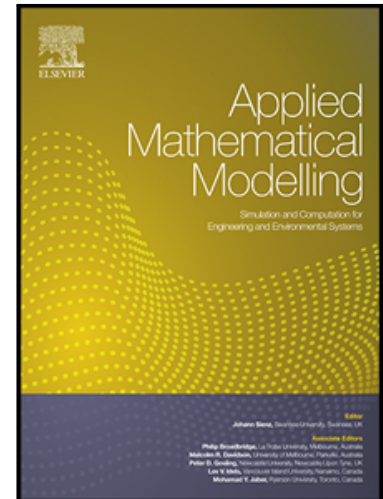


## Accepted Manuscript

Relevance of soil-pile tangential tractions for the estimation of kinematic seismic forces: Formulation and setting of a Winkler approach

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PII: S0307-904X(18)30037-4  
DOI: [10.1016/j.apm.2018.01.025](https://doi.org/10.1016/j.apm.2018.01.025)  
Reference: APM 12141



To appear in: *Applied Mathematical Modelling*

Received date: 21 July 2017  
Revised date: 22 November 2017  
Accepted date: 15 January 2018

Please cite this article as: Guillermo M. Álamo, Jacob D.R. Bordón, Juan J. Aznárez, Orlando Maeso, Relevance of soil-pile tangential tractions for the estimation of kinematic seismic forces: Formulation and setting of a Winkler approach, *Applied Mathematical Modelling* (2018), doi: [10.1016/j.apm.2018.01.025](https://doi.org/10.1016/j.apm.2018.01.025)

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**Highlights**

- A BDWF model including the distributed moments produced by the pile rotation and the action of the seismic field is presented
- The performance of the proposed model for computing the pile seismic internal forces is tested against a BE formulation
- The influence of the contact condition between pile and soil on the pile seismic forces is also analysed
- Depending on the contact condition, pile shear forces can be duplicated, while bending moments remain practically unaltered

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