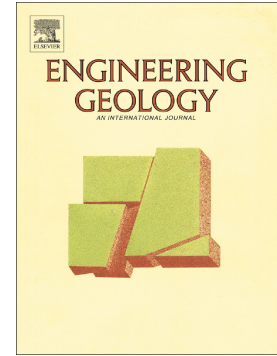


## Accepted Manuscript

Impact of incident angles of earthquake shear (S) waves on 3-D non-linear seismic responses of long lined tunnels

Jing-qi Huang, Xiu-li Du, Mi Zhao, Xu Zhao



PII: S0013-7952(16)30358-1

DOI: doi: [10.1016/j.enggeo.2017.03.017](https://doi.org/10.1016/j.enggeo.2017.03.017)

Reference: ENGEO 4530

To appear in: *Engineering Geology*

Received date: 16 September 2016

Revised date: 26 February 2017

Accepted date: 23 March 2017

Please cite this article as: Jing-qi Huang, Xiu-li Du, Mi Zhao, Xu Zhao , Impact of incident angles of earthquake shear (S) waves on 3-D non-linear seismic responses of long lined tunnels. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Enggeo(2016), doi: [10.1016/j.enggeo.2017.03.017](https://doi.org/10.1016/j.enggeo.2017.03.017)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# Impact of incident angles of earthquake shear (S) waves on 3-D non-linear seismic responses of long lined tunnels

Jing-qi Huang<sup>a,b,\*</sup>, Xiu-li Du<sup>a,\*\*</sup>, Mi Zhao<sup>a</sup>, Xu Zhao<sup>a</sup>

<sup>a</sup> Key Laboratory of Urban Security and Disaster Engineering of Ministry of Education,  
Beijing University of Technology, Beijing, 100124, China

<sup>b</sup> Department of Civil Engineering, Tsinghua University, 100084, Beijing, China

\*Corresponding Author Email: [huangjingqi11@163.com](mailto:huangjingqi11@163.com) Tel: +86-17701387089

Download English Version:

<https://daneshyari.com/en/article/5787626>

Download Persian Version:

<https://daneshyari.com/article/5787626>

[Daneshyari.com](https://daneshyari.com)