

# Accepted Manuscript

Modeling masonry walls under far-field and contact detonations

Georgios Michaloudis, Norbert Gebbeken

PII: S0734-743X(18)30458-5  
DOI: <https://doi.org/10.1016/j.ijimpeng.2018.09.019>  
Reference: IE 3181

To appear in: *International Journal of Impact Engineering*

Received date: 21 May 2018  
Revised date: 7 September 2018  
Accepted date: 29 September 2018

Please cite this article as: Georgios Michaloudis, Norbert Gebbeken, Modeling masonry walls under far-field and contact detonations, *International Journal of Impact Engineering* (2018), doi: <https://doi.org/10.1016/j.ijimpeng.2018.09.019>



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.

**Highlights**

- The material formulation performs well in modeling bricks under high strain rates
- The proposed approach enables modeling formation of debris with Lagrangian elements
- Walls under far-field detonation: robust modeling of the interfaces is crucial
- Walls under contact detonation: formulating the equation of state is most important
- Numerical results are validated and in good agreement with the experiments

Download English Version:

<https://daneshyari.com/en/article/11016293>

Download Persian Version:

<https://daneshyari.com/article/11016293>

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