

Accepted Manuscript

Modeling dynamic fragmentation of heterogeneous brittle materials

David Cereceda, Lori Graham-Brady, Nitin Daphalapurkar

PII: S0734-743X(16)30141-5
DOI: [10.1016/j.ijimpeng.2016.09.012](https://doi.org/10.1016/j.ijimpeng.2016.09.012)
Reference: IE 2749

To appear in: *International Journal of Impact Engineering*

Received date: 1 April 2016
Revised date: 17 August 2016
Accepted date: 18 September 2016

Please cite this article as: David Cereceda, Lori Graham-Brady, Nitin Daphalapurkar, Modeling dynamic fragmentation of heterogeneous brittle materials, *International Journal of Impact Engineering* (2016), doi: [10.1016/j.ijimpeng.2016.09.012](https://doi.org/10.1016/j.ijimpeng.2016.09.012)



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

- Dynamic fragmentation of heterogeneous brittle materials is investigated
- Fragment-size and fragment-mass results are obtained in glass, concrete and masonry
- A new framework that incorporates heterogeneous strain rates has been proposed.
- This approach predicts the same fragment-size distribution as experiments.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5015657>

Download Persian Version:

<https://daneshyari.com/article/5015657>

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