Accepted Manuscript

An Improved Dynamic Expanding Cavity Model for High-Pressure and High-Strain Rate Response of Ceramics

Salil Bavdekar, Gregory Parsard, Ghatu Subhash, Sikhanda Satapathy

PII:S0020-7683(17)30331-1DOI:10.1016/j.ijsolstr.2017.07.014Reference:SAS 9660

To appear in: International Journal of Solids and Structures

Received date:22 March 2017Revised date:20 June 2017Accepted date:10 July 2017

Please cite this article as: Salil Bavdekar, Gregory Parsard, Ghatu Subhash, Sikhanda Satapathy, An Improved Dynamic Expanding Cavity Model for High-Pressure and High-Strain Rate Response of Ceramics, *International Journal of Solids and Structures* (2017), doi: 10.1016/j.ijsolstr.2017.07.014

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:

- A dynamic expanding cavity model to describe penetration in ceramics is proposed.
- A constitutive model for comminuted ceramics is developed.
- Both models may be used in the absence of relevant experimental data.
- The expanding cavity model identifies vital properties governing impact behavior.

Download English Version:

https://daneshyari.com/en/article/4922425

Download Persian Version:

https://daneshyari.com/article/4922425

Daneshyari.com