

# Accepted Manuscript

Johnson-Cook Parameter Evaluation from Ballistic Impact Data via Iterative FEM Modelling

M Burley , JE Campbell , J Dean , TW Clyne

PII: S0734-743X(17)30782-0  
DOI: [10.1016/j.ijimpeng.2017.10.012](https://doi.org/10.1016/j.ijimpeng.2017.10.012)  
Reference: IE 3008



To appear in: *International Journal of Impact Engineering*

Received date: 15 September 2017  
Revised date: 24 October 2017  
Accepted date: 27 October 2017

Please cite this article as: M Burley , JE Campbell , J Dean , TW Clyne , Johnson-Cook Parameter Evaluation from Ballistic Impact Data via Iterative FEM Modelling, *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.10.012](https://doi.org/10.1016/j.ijimpeng.2017.10.012)

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**

- A methodology is presented for the reliable extraction of strain rate sensitivity parameters from ballistic indentation data
- The procedure involves evaluation of a goodness of fit parameter,  $g$ , relative to the experimental data, for repeated FEM simulations
- Values of about 0.016 and 0.030 have been obtained for the Johnson-Cook parameter  $C$ , for two different materials

Download English Version:

<https://daneshyari.com/en/article/7173036>

Download Persian Version:

<https://daneshyari.com/article/7173036>

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