Accepted Manuscript

Coupling digital image correlation and finite element analysis to determine constitutive parameters in necking tensile specimens

Daniel Gerbig, Allan Bower, Vesna Savic, Louis G. Hector Jr.

 PII:
 S0020-7683(16)30153-6

 DOI:
 10.1016/j.ijsolstr.2016.06.038

 Reference:
 SAS 9217



To appear in: International Journal of Solids and Structures

Received date:8 June 2015Revised date:1 April 2016Accepted date:30 June 2016

Please cite this article as: Daniel Gerbig, Allan Bower, Vesna Savic, Louis G. Hector Jr., Coupling digital image correlation and finite element analysis to determine constitutive parameters in necking tensile specimens, *International Journal of Solids and Structures* (2016), doi: 10.1016/j.ijsolstr.2016.06.038

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:

- Analytically combines digital image correlation and finite element analysis
- Applicable to arbitrary constitutive model
- Tested and verified with simulated tensile experiments
- Applied to measure flow behavior beyond 60% strain from necking tensile experiments

Download English Version:

https://daneshyari.com/en/article/4922812

Download Persian Version:

https://daneshyari.com/article/4922812

Daneshyari.com