

Accepted Manuscript

Determining the Strain to Fracture for Simple Shear for a Wide Range of Sheet Metals

Christian C. Roth , Dirk Mohr

PII: S0020-7403(18)32392-0
DOI: <https://doi.org/10.1016/j.ijmecsci.2018.10.007>
Reference: MS 4563



To appear in: *International Journal of Mechanical Sciences*

Received date: 19 July 2018
Revised date: 6 September 2018
Accepted date: 2 October 2018

Please cite this article as: Christian C. Roth , Dirk Mohr , Determining the Strain to Fracture for Simple Shear for a Wide Range of Sheet Metals, *International Journal of Mechanical Sciences* (2018), doi: <https://doi.org/10.1016/j.ijmecsci.2018.10.007>

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

- Demonstrated the risk of tensile fracture in flat shear specimens
- Analyzed specimen validity for wide range of materials from low to high hardening and ductility
- Evaluated performance of more than 600 specimen geometries
- Recommend testing of three specimens to identify the strain to fracture for simple shear

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/11020741>

Download Persian Version:

<https://daneshyari.com/article/11020741>

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