

## Accepted Manuscript

The Mechanisms for Strengthening under Dynamic Loading for Low Carbon and Microalloyed Steel

Remigiusz Bloniarz , Janusz Majta , Carl Trujillo , Ellen Cerreta ,  
Krzysztof Muszka

PII: S0734-743X(17)30539-0  
DOI: [10.1016/j.ijimpeng.2017.12.015](https://doi.org/10.1016/j.ijimpeng.2017.12.015)  
Reference: IE 3045



To appear in: *International Journal of Impact Engineering*

Received date: 22 June 2017  
Revised date: 21 November 2017  
Accepted date: 14 December 2017

Please cite this article as: Remigiusz Bloniarz , Janusz Majta , Carl Trujillo , Ellen Cerreta , Krzysztof Muszka , The Mechanisms for Strengthening under Dynamic Loading for Low Carbon and Microalloyed Steel, *International Journal of Impact Engineering* (2017), doi: [10.1016/j.ijimpeng.2017.12.015](https://doi.org/10.1016/j.ijimpeng.2017.12.015)

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

- Examination of the mechanical response of 4 steel grades with Taylor impact experiments.
- Identification of effects of microstructure on dynamic behavior of studied steels.
- Inhomogeneity of mechanical state of Taylor specimen studied through hardness maps.
- Discussion of mechanisms of different strengthening modes under dynamic loading.
- Source of flow curves of the studied materials for a wide range of strain rates.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7172964>

Download Persian Version:

<https://daneshyari.com/article/7172964>

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