

Accepted Manuscript

Deformation characteristics of ultrafine grained and nanocrystalline iron and pearlitic steel - An *in situ* synchrotron investigation

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PII: S1359-6454(18)30673-6

DOI: [10.1016/j.actamat.2018.08.036](https://doi.org/10.1016/j.actamat.2018.08.036)

Reference: AM 14788

To appear in: *Acta Materialia*

Received Date: 20 December 2017

Revised Date: 13 August 2018

Accepted Date: 19 August 2018

Please cite this article as: P Ghosh, K. Kormout, U Lienert, J Keckes, R Pippan, Deformation characteristics of ultrafine grained and nanocrystalline iron and pearlitic steel - An *in situ* synchrotron investigation, *Acta Materialia* (2018), doi: 10.1016/j.actamat.2018.08.036.

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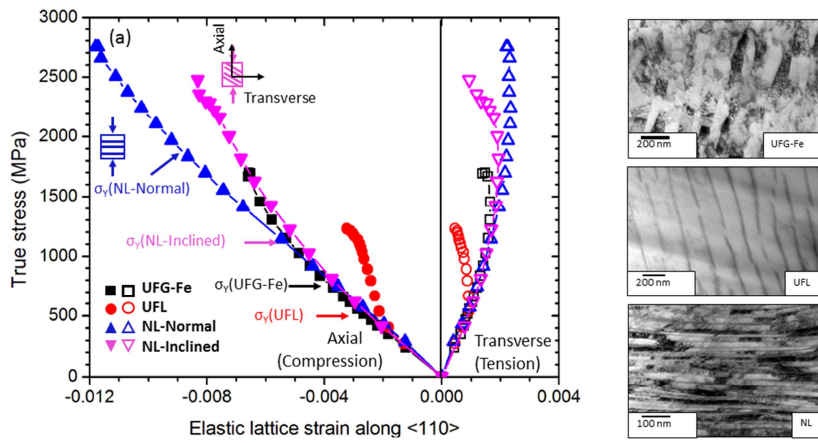


Figure. The evolution of elastic lattice strain along $\langle 110 \rangle$ direction for iron/ferrite phase in ultrafine grain Fe (UFG-Fe), ultrafine lamellar pearlite (UFL) and nanolamellar pearlite (NL). The NL was also loaded at 90° (NL-Normal) and 45° (NL-Inclined) to the lamellae. σ_y represents the yield stress.

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