Accepted Manuscript

On the role of the collinear dislocation interaction in deformation patterning and laminate formation in single crystal plasticity

D. Wang, M. Diehl, F. Roters, D. Raabe

 PII:
 S0167-6636(18)30127-3

 DOI:
 10.1016/j.mechmat.2018.06.007

 Reference:
 MECMAT 2892

To appear in: *Mechanics of Materials*

Received date:13 February 2018Revised date:23 June 2018Accepted date:28 June 2018

Please cite this article as: D. Wang, M. Diehl, F. Roters, D. Raabe, On the role of the collinear dislocation interaction in deformation patterning and laminate formation in single crystal plasticity, *Mechanics of Materials* (2018), doi: 10.1016/j.mechant.2018.06.007

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

- Full-field simulations of perturbed single crystals
- Self-organization into pattern
- Influence of boundary conditions and dislocation interactions
 discussed

1

Competition of energy minimization and kinetics

Download English Version:

https://daneshyari.com/en/article/7178474

Download Persian Version:

https://daneshyari.com/article/7178474

Daneshyari.com