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ON THE ROLE OF DISLOCATION TRANSPORT IN THE CONSTITUTIVE DESCRIPTION OF CRYSTAL PLASTICITY



Epubli In Der Dez 2013, 2013. Taschenbuch. Condition: Neu. Neuware - This dissertation presents a physics-based constitutive model of dislocation glide in metals that explicitly accounts for the redistribution of dislocations due to their motion. In this respect, it is settled between a) discrete dislocation dynamics models, which solve the equation of motion for every discretely represented dislocation segment by superposition of all dislocation stress fields, and b) local continuum dislocation-based models of crystal-plasticity, which represent the dislocation content by...

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- Authored by Christoph Kords
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