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3d dislocation dynamics: stress strain behavior

Abstract. A dislocation dynamics (DD) model for plastic deformation, connecting the macroscopic mechanical properties to basic physical laws governing dislocation

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Dislocation-mediated growth of bacterial cell

known to be important in determining the mechanical properties of materials science is that of the growth dynamics in terms of dislocation

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Modeling of abnormal mechanical properties of

Modeling of abnormal mechanical properties of nickel-based single crystal superalloy by three-dimensional discrete dislocation dynamics

Basal slip (0001)1/3 1120> dislocation in sapphire

1/3 dislocation in sapphire E. Nadgorny, 'Dislocation dynamics and mechanical properties of crystals', in Progress in Materials Science,

Dislocation velocity in copper electron

(1980), Dislocation velocity in copper electron irradiated at E. Nadgorny, Dislocation dynamics and mechanical properties of crystals, Progress in

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which either occur with monopolar properties, i.e. a single dislocation Dislocation Dynamics Crystal Plasticity, Mechanical Properties of Materials,

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in conformally passivated copper nanopillars as revealed by dislocation dynamics Progress in Materials Science 56 Mechanical Properties of Molybdenum

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Progress in Materials Science 56 (i.e. nanopillars), their mechanical properties can be tailored by altering the extent discrete dislocation dynamics models

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It produces stress strain curves and other mechanical properties, M. Tang, H. Zbib, "Crystal plasticity from dislocation dynamics," MRS Bulletin 26, 191 (2001)

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materials science. and dynamics, mechanical instabilities or strain localization, and phase of mechanical properties at small scales,

Dislocation motion in bcc metals by molecular

Materials Science and Engineering A309 Dislocation motion in BCC metals by molecular dynamics Dislocation dynamics and mechanical properties of crystals, Progr.

The kinetics of migration of point defects to

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some ideas will be presented for how dislocation dynamics The mechanical properties of materials strongly Progress in Materials Science