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### **Reversible Crystal Plasticity by Vladimir S. Boyko**

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Soviet researcher (and co-author of this book) R. I. Garber was prominent among those advancing this study in the 20th century, especially as he was the first to observe reversible plasticity--using optical microscopy to discover reversible twinning in calcite and sodium nitrate published between 1938 and 1947 (p.68).

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The mechanism responsible for the plastic reversibleâ€“irreversible transition is shown to be a competition between the nucleation of Shockley partial dislocations at the nanopillar surface for irreversible plasticity vs. twinning dislocations for reversible plasticity.

### **Reversibleâ€“irreversible plasticity transition in twinned**

Micro-scale single crystal Bauschinger effect and reversible plasticity in copper during bending Conference Paper (PDF Available) Â· December 2010 with 49 Reads Conference: Conference: MRS Fall 201

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plasticity is usually employed (see below), and use is made of special limit theorems which hold for such models. Plastic deformations are normally rate independent, that is, the stresses induced are

## 8.1 Introduction to Plasticity - Auckland

This process is known as reversible crystal plasticity. Reversible plasticity is the main property of plastic deformation by twinning. It represents the first stage of the mechanical twinning of crystals, elastic twinning [1].

### Reversible plasticity of metallic single crystals at the

Material crystal plasticity corresponds to a different irreversible process by which lattice rotates together with material lines between reference and intermediate configurations. Deformation twinning is an example

### Material Crystal Plasticity and Deformation Twinning

Through computer simulations, we show that plasticity in twinned copper nanopillars can be either reversible or irreversible depending on the applied stress state.

### Reversible to irreversible plasticity transition in twinned

Plasticity in a crystal of pure metal is primarily caused by two modes of deformation in the crystal lattice: slip and twinning. Slip is a shear deformation which moves the atoms through many interatomic distances relative to their initial positions.

### Plasticity (physics) - Wikipedia

Reversible crystal plasticity: 7. Reversible crystal plasticity. by Vladimir S Boyko; Ruvim I Garber; Arnold M Kossevich Print book: English. 1994 : New York : American Institute of Physics 8. Reversible crystal plasticity: 8. Reversible crystal plasticity.

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