MIME 656. DEFORMATION MECHANISMS IN CRYSTALLINE SOLIDS.

Credits: 3

Offered by: Mining & Materials Engineering (Graduate Studies)

Terms offered: Fall 2025

View offerings for Fall 2025 in Visual Schedule Builder.

Description

Deformation and failure mechanisms in crystalline solids; dislocation mechanics and dynamics, including Peierls-Nabarro model, Peach-Koehler equation, dislocation pile-ups and dislocation forest; Griffith fracture mechanics, crack-tip plasticity, J-integral and crack-dislocation interactions.