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plastic deformation in crystalline solids requires a knowledge of how an assembly of dislocations - the defects responsible for crystal plasticity - evolves under stress. In this context, molecular-dynamics simulations have been used to elucidate interatomic processes on microscopic ($\sim 10^{-10}$ m) scales, whereas 'dislocation-dynamics' simulations have explored the ... Connecting atomistic and mesoscale simulations of crystal ... This chapter mainly discusses plastic flow in FCC crystals, where dislocations are intrinsically highly mobile, going from elementary dislocation mechanisms to dislocation microstructures and the mechanical response. Experimental aspects and the current state of the art in modelling are discussed. The

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Stress concentration at the origin of strain localization in slip bands is naturally reproduced by DD simulations.

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