The Fundamentals of Crystallography; Geometry of Dislocations; Fundamentals of Elasticity Theory; Elasticity Theory of Dislocations; Elastic Interaction Between Dislocations and Solute Atoms; Motion of Dislocations (Peierls Force) and Multiplication (Frank-Read Source, Bardeen-Herring Source); Dislocation Groups; Dissociated Dislocations in FCC Structure; Dissociated Dislocations in HCP; Dislocations in Ordered Alloys and Intermetallic and Inverse Temperature Dependence of the Strength; Dislocations in Diamond, Zincblend and Wurtzite Structures and SiC; Dislocations and Macroscopic Strength; Dislocations in Thin Foils;