PART I BASIC CRYSTALLOGRAPHY. Introduction and Point Groups. Stereographic Projections. Stereograms for Low Symmetry Systems. Space Groups. The Reciprocal Lattice and Diffraction. Deformation and Texture. Interfaces, Orientation Relationships. Crystallography of Martensitic Transformations. PART II A FEW ADVANCED METHODS. Orientation Relations. Homogeneous Deformations. Invariant-Plane Strains. Martensite. Interfaces. A. Matrix Methods. B. General Rotation Matrix