CHAPTER OVERVIEW

Module 6 - Polarization Optics

Module 6: Polarization Optics explores the fundamental concepts and applications of light polarization. Students will study the Poincaré sphere to understand linear, circular, and elliptical polarization states. The module introduces natural light and its transformation through polarizers, including Malus' law. Key topics include birefringent crystals, retarders, and polarization effects by reflection, such as the Brewster angle. Analytical frameworks like Stokes and Jones formalisms are used to describe and manipulate polarization states mathematically.
