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The wide-ranging optical properties observed in solid state materials can be classified into a small number of general phenomena. The simplest group, namely reflection, propagation and transmission, is illustrated in Fig. 1.1. This shows a light beam incident on an optical medium.

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Preface 1. Introduction 2. Classical propagation 3. Interband absorption 4. Excitons 5. Luminescence 6. Semiconductor quantum wells 7. Free electrons 8. Molecular materials 9. Luminescence centres 10. Phonons 11. Nonlinear optics Appendix A: Electromagnetism in dielectrics Appendix B: Quantum theory of radiative absorption and emission Appendix C: Band theory Appendix D: Semiconductor p-i-n diodes

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The optical properties of solids provide an important tool for studying energy band struc- ture, impurity levels, excitons, localized defects, lattice vibrations, and certain magnetic excitations.

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Synopsis The innovative text gives an introductory treatment of the optical properties of solids. The fundamental principles of absorption, reflection, luminescence and light scattering are discussed for a wide range of materials, including crystalline insulators and semiconductors, glasses, metals, and molecular materials.

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The Optical Properties of Solids Why do different solids exhibit different optical properties? Why are some red or yellow or green, transparent or opaque? In today’s lecture we are going to explore: What gives solids their colour; why are some materials transparent (e.g. diamond, sapphire) and some opaque (e,g., silicon)? Why are some materials yellow (zinc selenide) and some orange (GaP).