



Scattering of Light by Crystals (Dover Science Books)

William Hayes, Rodney Loudon

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This authoritative graduate-level text describes the phenomenon of inelastic light scattering by crystals and its use in the investigation of the solid-state excitation. Its experimental techniques are common to the study of all types of excitation, and it describes the main components of light-scattering apparatus in detail.

Chapter 1 surveys the scope of light-scattering experiments. The typical frequencies of excitations in crystals can usually be examined with Brillouin or Raman scattering; these techniques are described in Chapter 2.

The remainder of the text presents a systematic account of the measurements and theories of light scattering by various solid-state excitations. Chapters 3 and 4 cover Raman scattering by nonpolar and polar optic vibrations; Brillouin scattering by acoustic vibrations is examined in Chapter 8. Vibrational effects associated with structural phase changes are treated in Chapter 5, and Raman scattering by magnetic and electronic excitation in crystals is discussed in Chapters 6 and 7.

Clear experimental examples and coherent theoretical interpretations make this book suitable for physicists, physical chemists, researchers, and students.

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