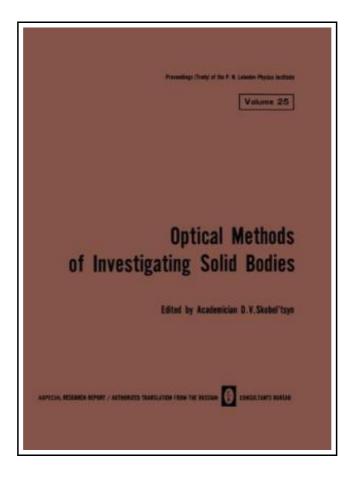
## Volume 25: Optical Methods of Investigating Solid Bodies



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## Reviews

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Book Condition: New. Publisher/Verlag: Springer, Berlin | The principal results of the work are as follows: 1. A simplified technique was devised for obtaining Raman spectra of powders. 2. The Raman and infrared absorption spectra of the following oxides were investigated: AsP3' SbP3' As 0 SbP5. Te02. Ge02 (two forms) in the crystalline state, and ASP3' Ge02' Te0 in the glassy state. 2 5 2 3. The vibrational spectra of the crystalline and glassy forms of the oxides ASP3' Ge02' Te02 are simi lar in many main respects, indicating a similarity of their structural units which determine the vibrational spec tra of these substances. 4. By a study of the vibrational spectrum it was shown that arsenious anhydride has a molecular structure and consists of As0 molecules having symmetry of the point group Td' The force constants and vibration fre 4 6 quencies of the As 0 molecule were calculated, and the vibrational spectrum of arsenious anhydride was re 4 6 liably interpreted with the aid of these results. 5. A similar result was obtained for antimonous anhydride. consisting of Sb0 molecule.s with symmetry 4 6 ofthe point group Td. The force constants for this molecule were found and the vibrational spectrum was calculated. | I. Polyatomic Molecules and Molecular Crystals (aims, methods, and objects of the investigation, statement of problems, review of literature).- II. Anisotropy of Molecules (determination of the orientation of radiating oscillators with respect to the axes of the molecules by means of the polarization spectra of the luminescence of solutions).- III. The Oriented Gas Model and its Application to Molecular Crystals (polarization diagrams of luminescence).- IV. Migration of Excitation Energy Between the Molecules in Molecular Crystals (dependence of the polarization of the luminescence on that of the exciting light).- V. The Part of Free Excitons in...

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