



Volume 25: Optical Methods of Investigating Solid Bodies

By Skobel'tsyn, D. V.

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; As₀SbP₅. TeO₂. GeO₂ (two forms) in the crystalline state, and AsP₃; GeO₂; TeO₂ in the glassy state. 2.5. 2.3. The vibrational spectra of the crystalline and glassy forms of the oxides AsP₃; GeO₂; TeO₂ are similar in many main respects, indicating a similarity of their structural units which determine the vibrational spectra 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 frequencies of the As₀ molecule were calculated. and the vibrational spectrum of arsenious anhydride was reasonably interpreted with the aid of these results. 5. A similar result was obtained for antimonous anhydride, consisting of Sb₀ molecules with symmetry Td. The force constants for this molecule were found and the...

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