



## 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:  $\text{AsP}_3$ ;  $\text{SbP}_3$ ;  $\text{As}_2\text{O}_5$ ;  $\text{TeO}_2$ ;  $\text{GeO}_2$  (two forms) in the crystalline state, and  $\text{AsP}_3$ ;  $\text{GeO}_2$ ;  $\text{TeO}_2$  in the glassy state. 2.5.3. The vibrational spectra of the crystalline and glassy forms of the oxides  $\text{AsP}_3$ ;  $\text{GeO}_2$ ;  $\text{TeO}_2$  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  $\text{AsO}_4$  molecules having symmetry of the point group  $T_d$ . The force constants and vibration frequencies of the  $\text{AsO}_4$  molecule were calculated, and the vibrational spectrum of arsenious anhydride was reliably interpreted with the aid of these results. 5. A similar result was obtained for antimonous anhydride, consisting of  $\text{SbO}_4$  molecules with symmetry of the point group  $T_d$ . The force constants for this molecule were found and the...



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