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Springer Feb 1978, 1978. Taschenbuch. Book Condition: Neu. 24.4x17x cm. This item is printed on demand - Print on Demand Neuware - Recently, the molecular structures of a relatively large number of sulphone compounds have been elucidated in the vapour phase by electron diffraction and microwave spectroscopy. The main purpose of these studies is the determination of the sulphur bond configuration and the conformational properties. This leads to the observation and correlation of characteristic structural variations as various ligands are attached to the S02 group and as comparisons are made with related molecules. Today it may be said that the structure of sulphone molecules is relatively well studied, and it appeared necessary to systematize the accumulated experimental data after critical considerations. This is done in the first part of this monograph. The second part presents the observed characteristic structural variations. Attempts are made to interpret these variations by valence shell electron pair repulsions and-non-bonded interactions. Correlation relationships between geometric and vibrational parameters are also presented. It is the metrical aspects of the molecular structure which are primarily considered. Since they correlate with other aspects of the molecular structure, e.g. electronic, it is hoped that the experimental information on the molecular geometry provides stim ulus for further experimental, and, in particular, theoretical work on sulphones and related systems. IV It is attempted to cover all electron diffraction and micro wave spectroscopic investigations on sulphone molecules to date. Admittedly, however, relatively larger weight is given to the electron diffraction studies originating from the author's own laboratory. 176 pp. Englisch.

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