

OBSERVATION AND ANALYSIS SIMULTANEOUS TRANSITIONS OF INDUCED INFRARED ABSORPTION SPECTRA IN LIQUID MIXTURES

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Induced single and simultaneous transitions are registered in the infrared absorption spectra of liquid mixtures with CS₂ and CO₂. Frequencies, widths and integral band intensities of the spectra have been measured. A certain dualism is observed in the behaviour of the parameters in the studied bands.

In all experiments there is a concentration of binary integral coefficients of simultaneous transitions absorption bands which shows the double character of molecular interactions. On the other hand the changes of frequencies, widths and band profiles depending of the medium properties indicate to the multiphase character of the interaction in condensed phase. We are revealed the correlation of parameters of the simultaneous transition bands and Raman spectra.