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 consentration 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 mrdium properties indicate to the multipartiale character of the interaction in condensed phase. We are revealed the correlation of parameters of the simultaneous transition bands and Raman spectra.