THE FLUCTUATION MECHANISM OF ULTRASOUND ABSORPTION IN SOLUTIONS OF MOLECULAR LIQUIDS

I. I. Adamenko, A. N. Grigoriev, Yu. I. Kuzovkov

Taras Shevchenko Kyiv National University
(6, Academician Glushkov Prosp., Kyiv 03127, Ukraine)

S u m m a r y

The fluctuation and diffusion ultrasound absorption mechanism are analyzed for binary solution of linear and cyclic alkanes. The fluctuation contribution in mutual solutions of linear alkanes is shown to be negligible. Developed concentration fluctuations in "cyclic alkane + linear alkane" solutions condition a significant contribution of the fluctuation mechanism. The diffusion contribution to the sound absorption coefficient is shown to be insignificant in the studied solutions of linear and cycli, alkanes.