E. V. KIRYANOVA. TEMPERATURE-CONCENTRATION OSCILLATIONS AS A RESULT OF NANOSTRUCTURED PHENOMENA IN SOLUTIONS

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Temperature-concentration oscillations have been experimentally observed for aqueous solutions of inorganic salts (NH_4NO_3, $NaNO_3$, KNO_3, $RbNO_3$, K_2SO_4 K_2CrO_4, KBr, $NaBr{\cdot}2H_2O$) in the temperature range of 15—45 °C. These oscillations reflect nanostructured phenomena in concernt-rated solutions induced by cluster-formation. Temperature oscillations correlate with anomalies of other properties of solutions such as light scattering, thermal properties, pH as well with morphology and kinetics anomalies.