

FIELD ASYMMETRY  
OF CHEMICAL POTENTIAL CHANGES  
FOR INHOMOGENEOUS LIQUID UNDER  
GRAVITY NEAR THE CRITICAL POINT

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S u m m a r y

We present the experimental data on the height dependences of light scattering intensity and refraction index gradient for the inhomogeneous substances, *n*-pentane and binary solution *n*-pentane-bromobenzene, at their critical temperatures. Based on these data, the opposite height asymmetry for susceptibility  $(\partial \rho / \partial \mu)_T$  and density gradient  $d\rho/dh$  under the field of gravity  $h$  is obtained. It is shown that the main cause of the field asymmetry for the susceptibility of liquid when the critical isochore level goes away is the field asymmetry of a chemical potential change  $\Delta \mu(h)$  under gravity.