DEPOLARIZED LIGHT SCATTERING IN INHOMOGENEOUS SYSTEMS UNDER GRAVITY NEAR THE CRITICAL POINT

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S u m m a r y

The results of experimental studies of the intensities of the polarized and depolarized components of light scattered in inhomogeneous n-pentane and cyclopentane under gravity near their critical temperatures are presented. On the basis of these data, it has been shown that the depolarized light scattering in such inhomogeneous systems consists of the depolarized secondary and depolarized primary light scattering, the latter being caused by the tensor character of fluctuations of the dielectric permittivity of the substance in the vicinity of the critical point.