

A study on gravielectric polarization in 1-membrane systems

Marian Kargol, Beata Ornal, Tadeusz Kosztołowicz

In the present paper are presented the results of an experimental study on the gravielectric effect generated in a 1-membrane system. The results indicate that the gravielectric potential strongly depends on the concentrations of the solutions and on the inclination angle of the system with respect to the vertical. An attempt has also been made to explain and describe the effect analytically by constructing a theoretical model of the system, making use of the Goldman equation.