



*Научный руководитель*

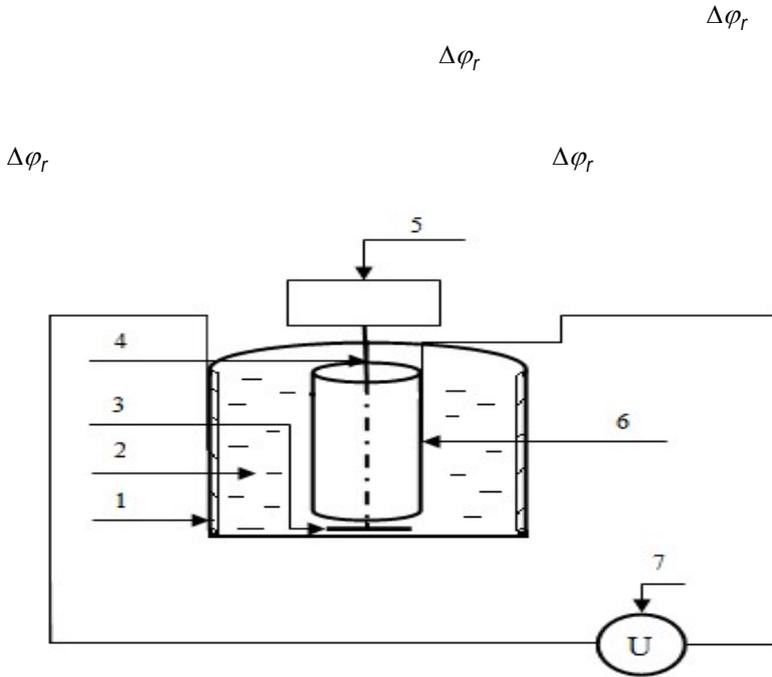


Рис. 1.

$\Delta\varphi_r$

$$d\varphi_r = \frac{\Delta A_r \omega R dr}{q}$$

$\Delta A_r$

$$\omega = \pi \vartheta$$

$R$

$$N = \frac{N_a m}{M}$$

$N$

$N_a$

$m$

$M$

$$\Delta\varphi_r = \frac{\Delta A_r \omega N_a m R - R}{qM}$$

$R_0$

$$\Delta\varphi_r = C \frac{\Delta A_r \omega N_a m R - R}{M}$$

$C \frac{\beta}{q}$   
 $\beta$

$\Delta\varphi_r$

$\Delta\varphi_r$

$\Delta\varphi_r$

$\Delta\varphi_r$

$\Delta A_r$

$\Delta\varphi_r$

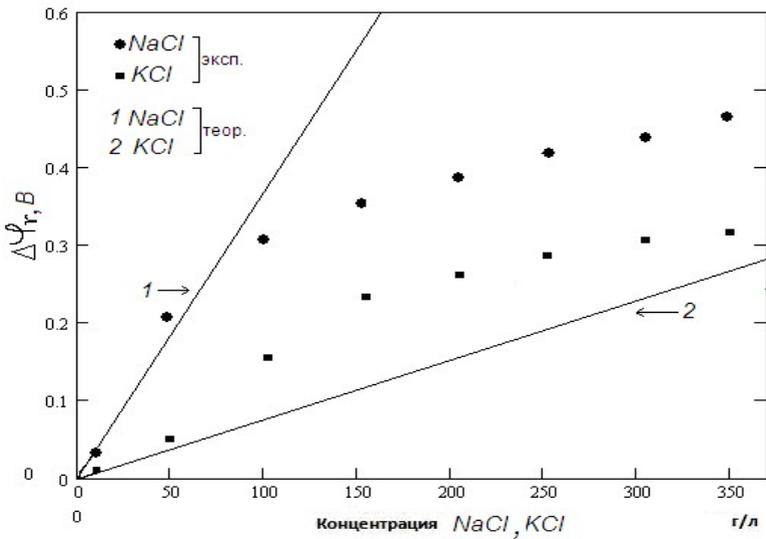


Рис. 2.

$\Delta\varphi_r$

$\Delta\varphi_r$

$\Delta\varphi_r$

$\Delta\varphi_r$