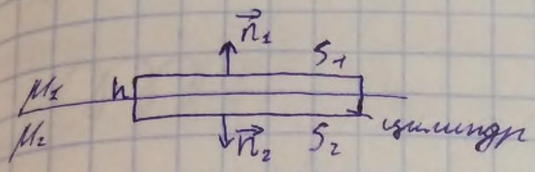
§13 Граничные условия для векторов $\vec{H}$ и $\vec{B}$



$S_1 = S_2$, $h \to 0$

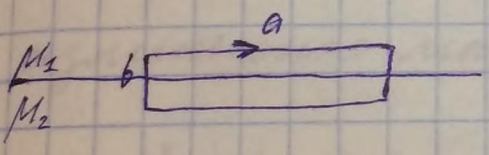
$$\oint_S B_n dS = \int_{\text{бок. пов.}} + \int_{S_1} B_{1n_1} dS + \int_{S_2} B_{2n_2} dS = B_{1n_1} \cdot S + B_{2n_2} \cdot S = 0$$

$$B_{1n_1} = -B_{2n_2}$$

$$\boxed{B_{1n} = B_{2n}}$$

$$\mu_0 \mu_1 H_{1n} = \mu_0 \mu_2 H_{2n}$$

$$\boxed{\frac{H_{2n}}{H_{1n}} = \frac{\mu_1}{\mu_2}}$$

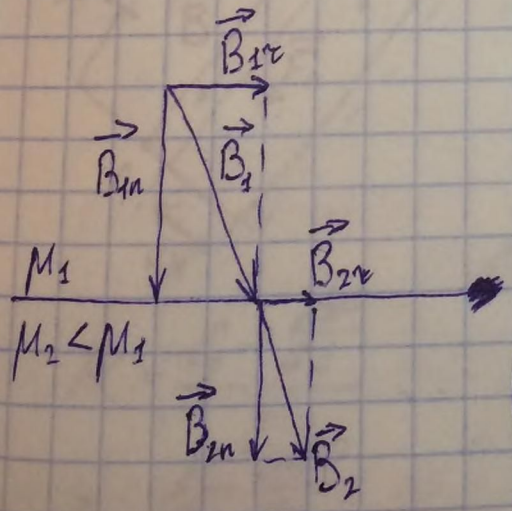


$b \to 0$

$$\oint_L H_\tau dL = \int H_{1\tau} dL + \int H_{2\tau} dL =$$

$$= H_{1\tau} \cdot a + -H_{2\tau} a = 0$$

$$\boxed{H_{2\tau} = H_{1\tau}}$$



$$\frac{B_{2\tau}}{\mu_0 \mu_2} = \frac{B_{1\tau}}{\mu_0 \mu_1}$$

$$\boxed{\frac{B_{2\tau}}{B_{1\tau}} = \frac{\mu_2}{\mu_1}}$$