

$$R = \rho * \frac{L}{S}$$

$$Q = I^2 * R * t = I^2 * \rho_{уд.конр} * \frac{L}{S} * t = c * m * \Delta T = c * \rho_{плотн} * S * L * \Delta T$$

$$\Delta T = I^2 * t * \frac{\rho_{уд.конр}}{S^2 * c * \rho_{плотн}}$$

$$\frac{\Delta T_{ал}}{\Delta T_{св}} = \frac{\left(I^2 * t * \frac{\rho_{уд.конр}}{S^2 * c * \rho_{плотн}} \right)_{ал}}{\left(I^2 * t * \frac{\rho_{уд.конр}}{S^2 * c * \rho_{плотн}} \right)_{св}} = \frac{\left(\frac{\rho_{уд.конр}}{S^2 * c * \rho_{плотн}} \right)_{ал}}{\left(\frac{\rho_{уд.конр}}{S^2 * c * \rho_{плотн}} \right)_{св}}$$

$$\Delta T_{ал} = \Delta T_{св} * \frac{\left(\frac{\rho_{уд.конр}}{S^2 * c * \rho_{плотн}} \right)_{ал}}{\left(\frac{\rho_{уд.конр}}{S^2 * c * \rho_{плотн}} \right)_{св}} = (327,5 - (283 - 273)) * \frac{\left(\frac{0,0262}{1,5^2 * 903 * 2700} \right)_{ал}}{\left(\frac{0,217}{0,5^2 * 130 * 11350} \right)_{св}} =$$

$$= 2,577688755 \sim 2,6 \sim 3$$