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$$\begin{cases} \frac{\partial u}{\partial t} + \frac{1}{\rho_0} \frac{\partial i}{\partial x} = 0; \\ \frac{\partial i}{\partial t} + \rho_0 c_0^2 \frac{\partial u}{\partial x} = 0, \end{cases}$$

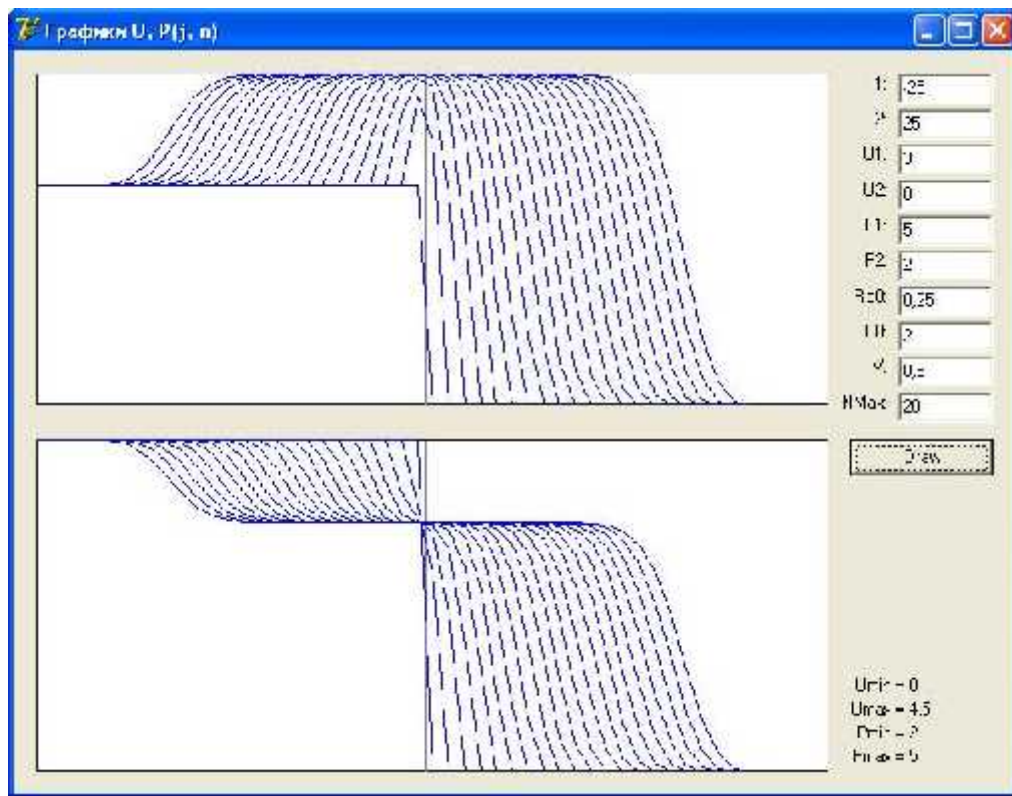
u t - ,
 , ρ_0 0 - .

$$\begin{cases} u^{j-1/2} = u_{j-1/2} - \frac{\tau}{h} \frac{1}{\rho_0} (P_j - P_{j-1}), \\ i^{j-1/2} = i_{j-1/2} - \frac{\tau}{h} \rho_0 c_0^2 (U_j - U_{j-1}), \end{cases}$$

U_j, P_j - , $x =$
 x_j :

$$\begin{cases} U_j = \frac{u_{j-1/2} + u_{j+1/2}}{2} - \frac{i_{j+1/2} - i_{j-1/2}}{2\rho_0 c_0}, \\ I_j = \frac{i_{j-1/2} + i_{j+1/2}}{2} - \rho_0 c_0 \frac{u_{j+1/2} - u_{j-1/2}}{2}. \end{cases}$$

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