

DRENI: EQUAZIONE DI FLUSSO

$$-v \cdot (\pi R dz) + \left(v + \frac{\partial v}{\partial R} dR\right) [\pi (R + dR) dz] = \frac{dV_w}{dt}$$

$$V_w = \frac{S \cdot e}{1 + e} dV$$

Trascurando infinitesimi di secondo ordine e ricordando che:

$$v = K_h \frac{\partial h}{\partial R}$$

$$c_h \left(\frac{1}{R} \frac{\partial u}{\partial R} + \frac{\partial^2 u}{\partial R^2} \right) = \frac{\partial u}{\partial t}$$

$$u = u_o \cdot e^{-\frac{8T_h}{F}}$$

$$U_h = 1 - \frac{u}{u_o}$$

$$T_h = \frac{c_h t}{d_e^2}$$

$$d_e = 1.05 \div 1.13 \text{ (Interasse)}$$

$$F = \frac{n^2}{n^2 - 1} \ln(n) - \frac{3n^2 - 1}{4n^2}$$

$$F = \ln(n) - 0.75$$

