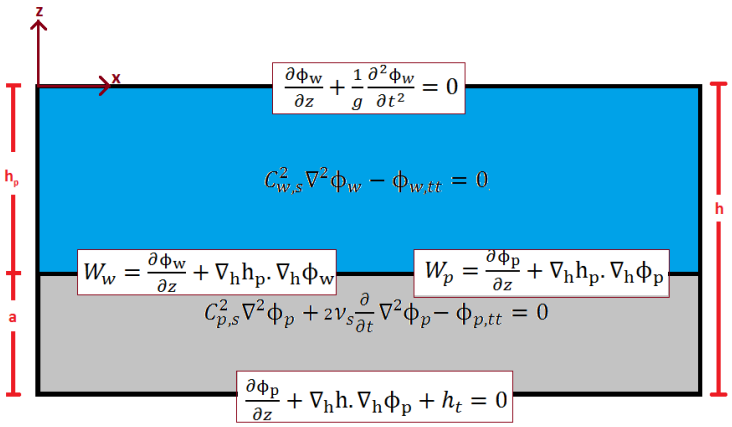

$$govering\ equation\ in\ upper\ layer\ C_{w,s}^2 \nabla^2 \phi_w - \frac{\partial^2 \phi_w}{\partial t^2} = 0, \quad -h_p \le z \le 0$$

$$governing\ equation\ in\ down\ layer\ C_{p,s}^2 \nabla^2 \phi_p + 2\nu_s \frac{\partial}{\partial t} \nabla^2 \phi_p - \frac{\partial^2 \phi_p}{\partial t^2} = 0, \quad -h \le z \le -h_p$$

$$C_{w,s} = 1500\ m/s$$

$$C_{p,s} = 2000\ m/s$$

$$g = 9.81$$

$$\phi_w = u_2\ (comsol)$$

$$\phi_p = u_1\ (comsol)$$

$$\nu_s = 2 * 10\text{^}10$$