

\* Penampay tush 1 = togli 2 -> A, = Az=A

Hk. Bernaulli

Kk. Kesetindongan mussa

$$Adh = N.u(t) - Cliveghi$$

$$\frac{dh}{dt} = -\frac{\alpha_1}{A} \sqrt{\frac{2gh_1}{A}} + \frac{h.ult}{A} harvinga ada, dimana=-\frac{2}{A}$$

Took 2

A 
$$\frac{dh_2}{dt} = \alpha_1 \sqrt{2gh_1} - \alpha_2 \sqrt{2gh_2}$$

$$\frac{dh_{L}}{dt} = \frac{\alpha_{L}}{A} \sqrt{2gh_{L}} - \frac{\alpha_{L}}{A} \sqrt{2gh_{L}}$$

# siku tak ada perubahan ketinggran h, & h,

$$0 = -\frac{\alpha_1}{A} \sqrt{29h_1(0)} + h_1(u(t))$$

$$\frac{a_1\sqrt{25h_{100}}}{A} = \frac{a_2}{A}\sqrt{29h_{200}}$$

$$\sqrt{2gh_{100}} = h.u(+).\frac{A}{a_1}$$

$$2gh_{100} = \left(\frac{h.u(+).A}{a_1}\right)^2$$

$$h_{100} = \frac{1}{2g}\left(\frac{h.u(+).A}{a_1}\right)^2$$

$$\sqrt{2gh_{200}} = \frac{a_1}{a_2} \sqrt{2gh_{100}}$$

$$2gh_{200} = \left(\frac{a_1}{a_2}\right)^2 2gh_{100}$$

$$h_{200} = \left(\frac{a_1}{a_2}\right)^2 h_{100}$$

& Maka

$$\frac{dh}{dt} = \frac{-\alpha_1}{A} \sqrt{2gh_1} + 12.4(t)$$

$$\Delta h_{i}(t) = -\left(\frac{\alpha_{i}}{A}\right)^{2} \frac{1}{n \cdot \alpha_{0}} \Delta h_{i}(t) + n \Delta u(t)$$