



$$\frac{dV_3^{input}(t)}{dt} = \left(\frac{1}{\tau_m} \right) (E_l - V_3^{input}(t) + R_m I_3(t))$$

$$\frac{dV_3^{output}(t)}{dt} = \left(\frac{1}{\tau_m} \right) (E_l - V_3^{output}(t) + R_m w^{3-3}(t))$$

