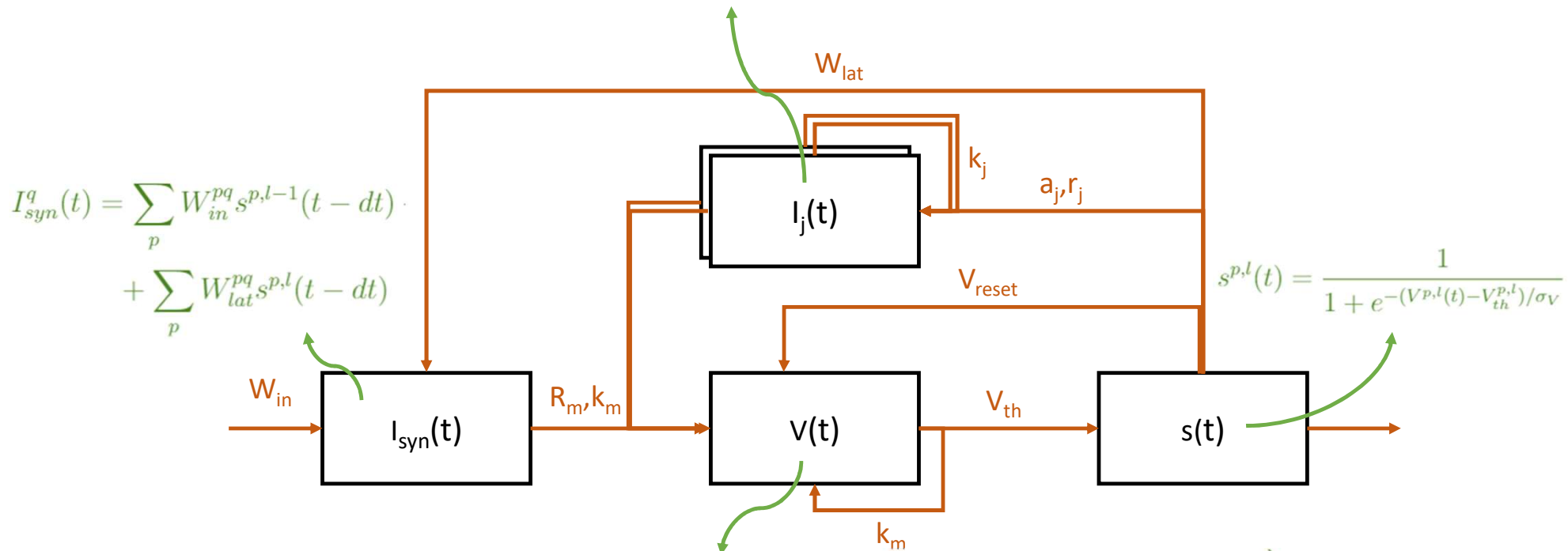


$$I_j^p(t) = I_j^p(t - dt)(1 - k_j dt) + (a_j + r_j I_j^p(t - dt))s^p(t - dt)$$



$$V^p(t) = V^p(t - dt)(1 - k_m dt) + R_m k_m \left(I_0 + I_{syn}^p(t) + \sum_j I_j^p(t) \right) dt - s^p(V^p(t - dt) - V_{reset})$$