Let us start from equation

$$U(t) = \frac{1}{C_{m}} \frac{T_{m}T_{s}}{T_{m}-T_{s}} \sum_{\substack{\text{Spike} \\ t_{i}}} W_{i} \Theta(t-t_{i}) \left[e_{i}p\left(-\frac{t-t_{i}}{T_{m}}\right) - e_{i}p\left(-\frac{t-t_{i}}{T_{s}}\right) \right]$$

let us substitute Tm = 2Ts

$$U(t) = \frac{2T_s}{C_m} \sum_{\text{Spikes}} W_i \Theta(t-t_i) \left[\exp(-\frac{t-t_i}{2T_s}) - \exp(-\frac{t-t_i}{T_s}) \right] =$$

=
$$\frac{2T_s}{C_m}$$
 $\left\{\begin{array}{c} ex_1(-\frac{t}{2T_s}) \sum_{\text{Spites}} W_i \Theta(t-t_i) exp(\frac{t_i}{2T_s}) + \frac{t_i}{2T_s} \end{array}\right\}$

$$+ exp(-\frac{t}{\tau_s}) \sum_{\text{spiles}} W_i \Theta(t-t_i) \exp(\frac{t_i}{\tau_s})$$

Now let us impose the condition $U(t) = \bigcirc \bigcirc \bigcirc$. We consider only the set of spiles preceeding the output spike time, that is

Of course $\Theta(\text{fast}-\text{fi})=1$ \forall $\forall_i \in C$. Hence last equation reduces to:

$$\Theta = U(4) = \frac{27}{Cm} \left\{ erp(\frac{t}{2s}) \sum_{t_i \in C} W_i exp(\frac{t_i}{2s}) + exp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t_i}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\} = \frac{27}{Cm} \left\{ erp(\frac{t}{7s}) \sum_{t_i \in C} W_i exp(\frac{t}{7s}) \right\}$$

=
$$\frac{27s}{C_m}$$
 $\left\{ \exp\left(\frac{-t}{27s}\right) Q_2 + \exp\left(\frac{-t}{7s}\right) Q_1 \right\}$

Now let is there $x = exp(-\frac{t}{2C_s}) = 3 \times 2 = exp(-\frac{t}{C_s})$ and we get

$$\frac{2T_S}{G_n} \left\{ a_1 \times + a_1 \times^2 \right\} - \Theta = 0$$

Which is of the form

If we get

Substituting the expression for x and using To= Culqu

$$exp(-t/z_{5})_{1/2} = \frac{q_{z}^{2} + \sqrt{q_{z}^{2} - 2q_{y}} f_{L} \theta}{2q_{1}}$$

Alkane The solution with smaller time is the one of interest, since the other one corresponds to the region in which the output erossing potential is decaying afther the potential. Thus

$$\frac{t}{\tau_s} = 2 \ln \left(\frac{2a_1}{q_2^7 - 2q_1 f_1 \vartheta} \right)$$
should be a 4 but I obtain 2 (1)

