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dt C. where $\tau = RC$ is the fluid time constant for the tank. The solution of this equation is $h(t) = \frac{1}{q_i} \int_0^t e^{-t/\tau} dt + C_0$. Let q_i be constant over each sampling period T , i.e. $q_i(t) = q_i(k) = \text{constant}$, for t in the interval. $[kT, (k+1)T)$.

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