

$$P(t) = H_s \left\{ \sin \left[\frac{2\pi(t + t_0 - \tau)}{T} \right] - A \right\}$$

$$A = \cos \left(\frac{\pi \Delta t}{T} \right); \quad t_0 = \arcsin(A)$$

H_s = Heaviside step function (flc2hs)

t = pulse delay

T = pulse period = $1/f$

Δt = pulse width

t_0 = makes the first pulse start at $t = 0$