Le Pelley model equations:

$$\Delta V_S^{n+1} = \sigma \alpha_S^n \beta^+ \cdot (1 - \partial V_S^n) \cdot |R^n| \tag{1}$$

$$\overline{\Delta V_S^{n+1}} = \sigma \alpha_S^n \beta^- \cdot (1 + \partial V_S^n) \cdot |R^n| \tag{2}$$

$\alpha_i^n$ = associability of the CS $i$ on trial $n$.

$\beta$ = Learning rate parameter for the US, where $\beta^+$ (excitatory) ¿ $\beta^-$ (inhibitory)

$\lambda_i^n$ = intensity of the US with stimuli i at trial n.

$V_{i,j}^n$ = associative strength of the CS $i$ on trial $n$.

$\overline{V_{i,j}^{n+1}}$ = inhibitory associative strength of the CS $i$ on trial $n+1$.

$\sigma$ = salience associability multiplicative factor

$R$ = Reinforcing value (excitatory/inhibitory)

$\partial V_S^n$ = $V_S$ - $\overline{V_S}$ Difference between the excitatory and inhibitory CS-US association.