Basal Value Synthesis Decay

$$\frac{\mathrm{d}X_i}{\mathrm{d}T} = k_{i\emptyset} + \sum k_{ij} S^{\alpha_{ij}}(X_j/\theta_{ij}) - k_i X_i$$

$$\text{Steady State} \Rightarrow (X^0 = \frac{\mathrm{d}X_i}{\mathrm{d}T} = 0)$$

$$X_i = \frac{1}{k_i}\left[k_{i0} + \sum k_{ij} S^{\alpha_{ij}}(X_j/\theta_{ij})\right]$$

(Syn/Decay) = K

$$D(X_i) = D(\frac{k_{i\emptyset}}{k_i}) + D\Big(\sum \frac{k_{ij}}{k_i} S^{\alpha_{ij}}(X_j/\theta_{ij})\Big)$$

(e.g. $D(K_{13} + K_{12}) = K_{1.23}$)

$$D(X_i) = D(K_{i0}) + D\Big(\sum K_{ij} S^{\alpha_{ij}}(X_j/\theta_{ij})\Big)$$

$$X_i = \sum_{I \subset p(i)} K_i(I)\left[\prod_{j \in I} S^{\alpha_{ij}}(X_j/\theta_{ij}) \prod_{j \in p(i)/I} 1 - S^{\alpha_{ij}}(X_j/\theta_{ij})\right]$$