

The correct form of equation 4 is:

$$\begin{aligned}
P_e(u, t + \Delta t_i) = & G_e(t + \Delta t, t) P_e(u, t) \\
& + 2 \{ \delta \Delta t_i \} P_e(v, t) P_e(w, t) \\
& + \{ \sigma \Delta t_i \} \bar{P}(v, t) P_e(w, t) \\
& + \{ \sigma \Delta t_i \} P_e(v, t) \bar{P}(w, t) \\
& + \{ \sigma \Delta t_i \} \bar{P}(u, t) E_e(t).
\end{aligned}$$

The correct form of equation A.2 is:

$$\begin{aligned}
\frac{d}{dt} \bar{E} = & + \left\{ \frac{N}{N-n} \sigma + \lambda \right\} (1 - \bar{E}) \\
& - \left\{ (\sigma + \delta + \frac{N-n_i}{N-1} \tau) (1 - \bar{E}) \right\} \bar{E} \\
& - \left\{ \sum_{f \in \mathcal{E}_i(S)} \frac{\tau}{N-1} (1 - E_f) \right\} \bar{E} \\
\bar{E}(0) = & 1.
\end{aligned}$$

The correct form of equation A.4 is:

$$\begin{aligned}
\frac{d}{dt} \bar{G} = & - \left\{ \frac{N}{N-n} \sigma + \lambda \right\} \bar{G} \\
& - \left\{ (\sigma + \delta + \frac{N-n_i}{N-1} \tau) (1 - 2\bar{E}) \right\} \bar{G} \\
& - \left\{ \sum_{f \in \mathcal{E}_i(S)} \frac{\tau}{N-1} (1 - E_f) \right\} \bar{G} \\
\bar{G}(t, t) = & 1.
\end{aligned}$$