$$\begin{split} P_{0}\left[\frac{i_{o}}{n_{o}}\left|\frac{i_{c}}{n_{c}}\right|\right] &= \left(1 - \frac{n_{c} - 1}{N}\right) \frac{n_{c} - i_{c}}{n_{c}} \sum_{t=0}^{t_{max}} P_{f,t} \left[\frac{i_{o}}{n_{o} - 1}\left|\frac{i_{c}}{n_{c} - 1}\right|\right] (A) \\ &+ \left(1 - \frac{n_{c} - 1}{N}\right) \frac{i_{c}}{n_{c}} (1 - s) \sum_{t=0}^{t_{max}} P_{f,t} \left[\frac{i_{o} - 1}{n_{o} - 1}\left|\frac{i_{c} - 1}{n_{c} - 1}\right|\right] (B) \\ &+ \frac{i_{c}}{N} (1 - s) \sum_{t=0}^{t_{max}} P_{f,t} \left[\frac{i_{o} - 1}{n_{o} - 1}\left|\frac{i_{c}}{n_{c}}\right|\right] (C) \\ &+ \frac{n_{c} - i_{c}}{N} \sum_{t=0}^{t_{max}} P_{f,t} \left[\frac{i_{o} - 1}{n_{o} - 1}\left|\frac{i_{c}}{n_{c}}\right|\right] (D) \\ &+ \left(1 - \frac{n_{c} - 1}{N}\right) \frac{i_{c}}{n_{c}} s P_{f,t_{max}} \left[\frac{i_{o} - 1}{n_{o} - 1}\left|\frac{i_{c} - 1}{n_{c} - 1}\right|\right] (sB) \\ &+ \frac{i_{c}}{N} s P_{f,t_{max}} \left[\frac{i_{o} - 1}{n_{o} - 1}\left|\frac{i_{c}}{n_{c}}\right|\right] (sC) \\ P_{f,t} \left[\frac{i_{o}}{n_{o}}\left|\frac{i_{c}}{n_{c}}\right|\right] &= \left(1 - \frac{n_{c} - 1}{N}\right) \frac{i_{c}}{n_{c}} s P_{f,t-1} \left[\frac{i_{o}}{n_{o}}\left|\frac{i_{c} - 1}{n_{c} - 1}\right|\right] (sB) \\ &+ \frac{i_{c}}{N} s P_{f,t-1} \left[\frac{i_{o}}{n_{o}}\left|\frac{i_{c}}{n_{c}}\right|\right] (sC) \end{split}$$