$$\varepsilon = \frac{1}{2(1-S_{01}{}^2)}\{(W_1+W_0) - 2S_{01}H_{01} \pm \sqrt{[(W_1+W_0) - 2S_{01}H_{01}]^2 - 4(1-S_{01}{}^2)(W_0W_1 - H_{01}{}^2)}\}$$

$$= \frac{1}{2(1-S_{01}{}^2)}\{(W_1+W_0) - 2S_{01}H_{01} \pm (W_1-W_0)[1 + \frac{4(H_{01}-S_{01}W_1)(H_{01}-S_{01}W_0)}{(W_1-W_0)^2}]^{1/2}\}$$