

Figure 1: K=3,k=1,n=2 畳み込み符号

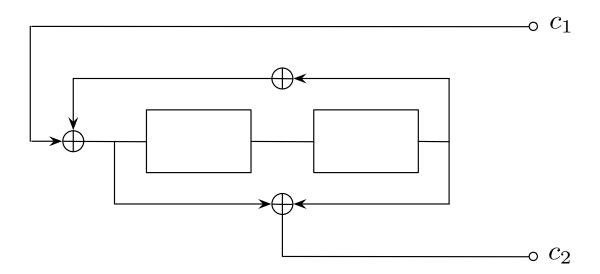


Figure 2: 再帰的系統的畳み込み (RSC) 符号器,K=3,k=1,n=2

| 状態 | 時間 | 時間 | 状態 |
|-------|---|----------------------------|-------|
| S' | i-1 | i | S |
| 00(1) | $\begin{array}{c} \alpha_{i-1}(1) & \gamma_i(1,1) \\ \beta_{i-1}(1) & \gamma_i(1,3) \end{array}$ | $\alpha_i(1)$ $\beta_i(1)$ | 00(1) |
| 01(2) | $\beta_{i-1}(2) \underbrace{\gamma_i(2,1)}_{\gamma_i(2,3)}$ | $\alpha_i(2)$ $\beta_i(2)$ | 01(2) |
| 10(3) | $\alpha_{i-1}(3) \xrightarrow{\gamma_i(3,2)} $ $\beta_{i-1}(3) \xrightarrow{\gamma_i(3,4)} $ | $\alpha_i(3)$ $\beta_i(3)$ | 10(3) |
| 11(4) | $\begin{array}{c} \alpha_{i-1}(4) \\ \beta_{i-1}(4) \end{array} \underbrace{\begin{array}{c} \gamma_i(4,2) \\ \gamma_i(4,4) \end{array}}_{\gamma_i(4,4)}$ | $\alpha_i(4)$ $\beta_i(4)$ | 11(4) |

Figure 3: α,β,γ の trellis ラベル。再帰的系統的畳み込み (RSC) 符号器,K=2,k=1,n=2, $g_1=1+D,g_2=1$

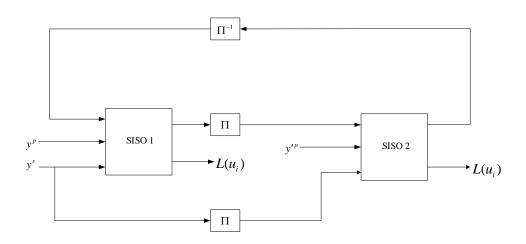


Figure 4: ターボ復号器



Figure 5: システムモデル