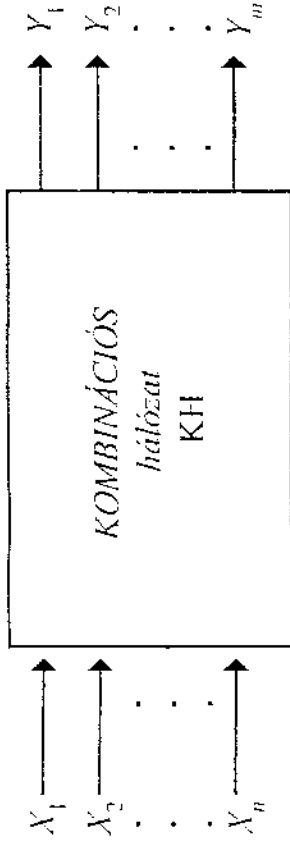


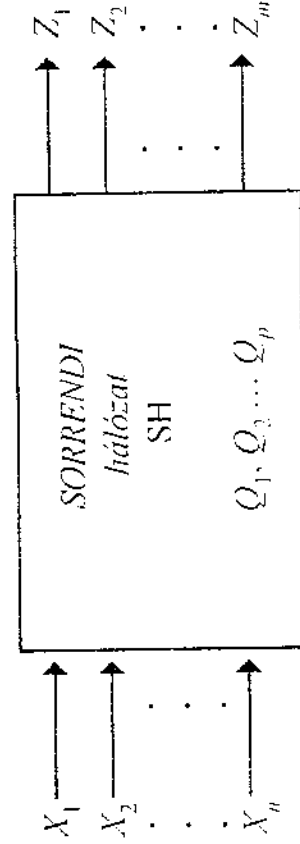
Tárolóelemek származtatása J-K távolóelemből



Kimeneti függvényrendszer:

$$\left. \begin{aligned} Y_1 &= F_1(X_1, X_2, \dots, X_n) \\ Y_2 &= F_2(X_1, X_2, \dots, X_n) \\ &\vdots \\ Y_m &= F_m(X_1, X_2, \dots, X_n) \end{aligned} \right\} \mathbf{Y} = f_{\mathbf{K}}(\mathbf{X})$$

*Kombinációs hálózat*



Belső állapotokat kifejező függvényrendszer:

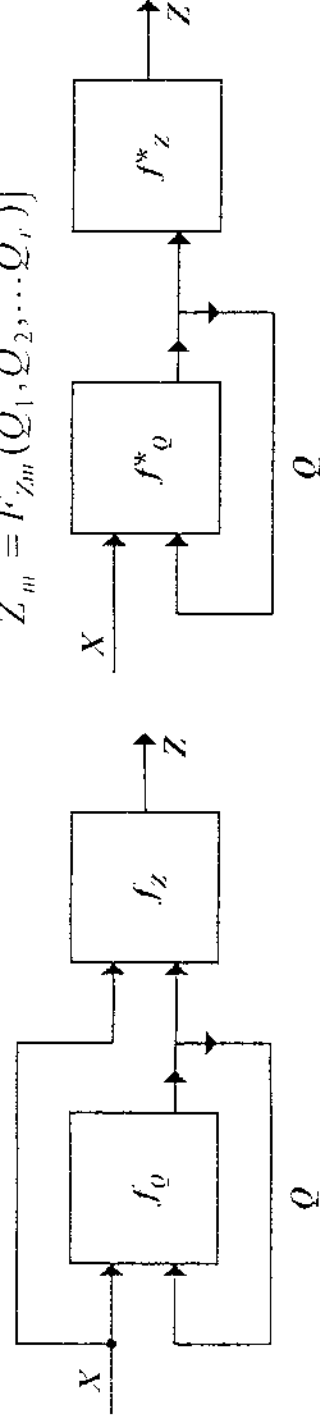
$$\left. \begin{aligned} Q'_1 &= F_{Q'_1}(X_1, X_2, \dots, X_n; Q_1, Q_2, \dots, Q_p) \\ Q'_2 &= F_{Q'_2}(X_1, X_2, \dots, X_n; Q_1, Q_2, \dots, Q_p) \\ &\vdots \\ Q'_p &= F_{Q'_p}(X_1, X_2, \dots, X_n; Q_1, Q_2, \dots, Q_p) \end{aligned} \right\} \mathbf{Q}' = f_{\mathbf{Q}}(\mathbf{X}, \mathbf{Q})$$

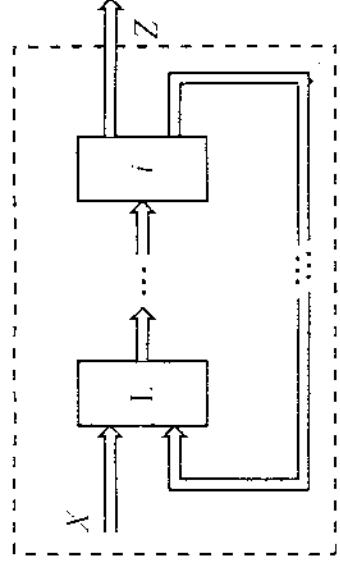
*Sorrendi hálózat*

Kimeneti függvényrendszer:

$$\left. \begin{aligned} Z_1 &= F_{Z_1}(X_1, X_2, \dots, X_n; Q_1, Q_2, \dots, Q_p) \\ Z_2 &= F_{Z_2}(X_1, X_2, \dots, X_n; Q_1, Q_2, \dots, Q_p) \\ &\vdots \\ Z_m &= F_{Z_m}(X_1, X_2, \dots, X_n; Q_1, Q_2, \dots, Q_p) \end{aligned} \right\} \mathbf{Z} = f_{\mathbf{Z}}(\mathbf{X}, \mathbf{Q})$$

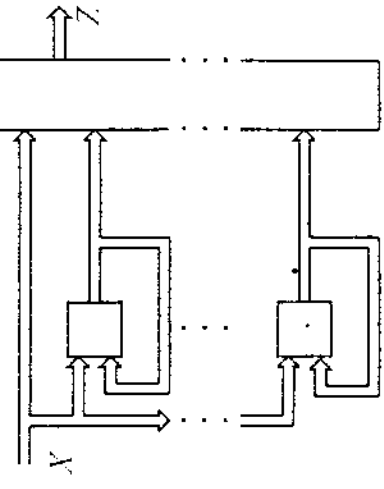
$$\left. \begin{aligned} Z_1 &= F_{Z_1}^*(Q_1, Q_2, \dots, Q_r) \\ Z_2 &= F_{Z_2}^*(Q_1, Q_2, \dots, Q_r) \\ &\vdots \\ Z_m &= F_{Z_m}^*(Q_1, Q_2, \dots, Q_r) \end{aligned} \right\} \mathbf{Z} = f_{\mathbf{Z}}^*(\mathbf{Q})$$



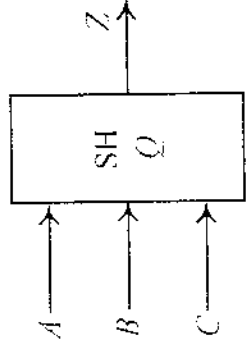


Megvalósítási alapesetek

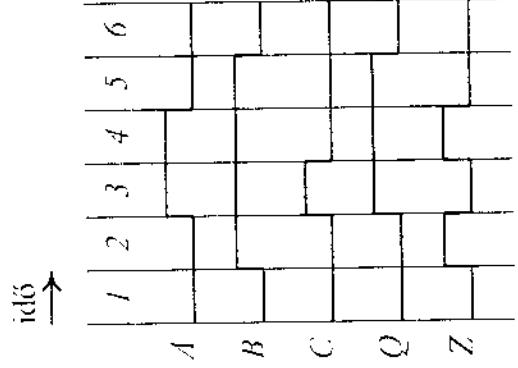
a.) visszacsatolt



b.) tárolóelemes



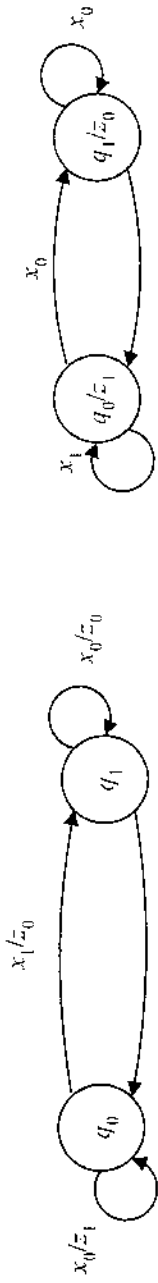
a.)



b.)

Példák idődiagram-változatokra

c.)



a.) Mealy - modell

b.) Moore modell állapotgráfja

a.) Mealy - modell Huffman táblája

$q$	$x_0$	$x_1$	$x_{N-1}$
$q_0$	$\frac{\rho(x_0, q_0)}{\Psi(x_0, q_0)}$	$\frac{\rho(x_1, q_0)}{\Psi(x_1, q_0)}$	$\frac{\rho(x_{N-1}, q_0)}{\Psi(x_{N-1}, q_0)}$
$q_1$	$\frac{\rho(x_0, q_1)}{\Psi(x_0, q_1)}$	$\frac{\rho(x_1, q_1)}{\Psi(x_1, q_1)}$	$\frac{\rho(x_{N-1}, q_1)}{\Psi(x_{N-1}, q_1)}$
$q_{p-1}$	$\frac{\rho(x_0, q_{p-1})}{\Psi(x_0, q_{p-1})}$	$\frac{\rho(x_1, q_{p-1})}{\Psi(x_1, q_{p-1})}$	$\frac{\rho(x_{N-1}, q_{p-1})}{\Psi(x_{N-1}, q_{p-1})}$

a.) Mealy - modell Huffman táblája

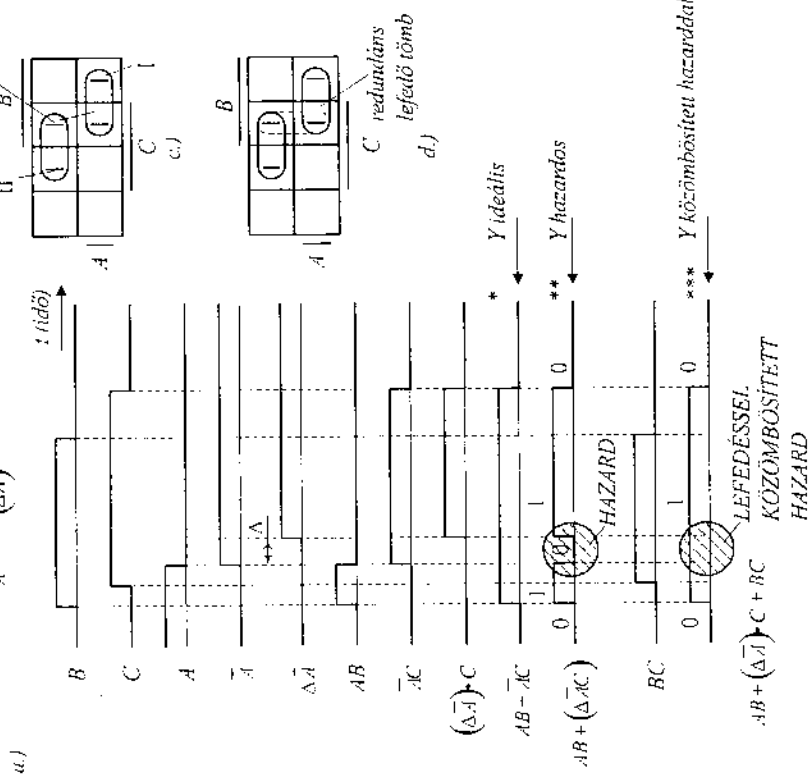
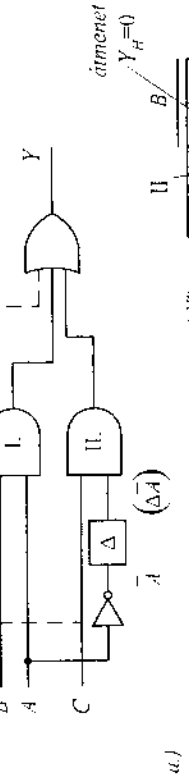
b.) Moore - modell Huffman táblája

$q$	$x_0$	$x_1$	$x_{N-1}$	$z = \psi(q)$
$q_0$	$\rho(x_0, q_0)$	$\rho(x_1, q_0)$	$\rho(x_{N-1}, q_0)$	$\psi(q_0)$
$q_1$	$\rho(x_0, q_1)$	$\rho(x_1, q_1)$	$\rho(x_{N-1}, q_1)$	$\psi(q_1)$
$q_{p-1}$	$\rho(x_0, q_{p-1})$	$\rho(x_1, q_{p-1})$	$\rho(x_{N-1}, q_{p-1})$	$\psi(q_{p-1})$

b.) Moore - modell Huffman táblája

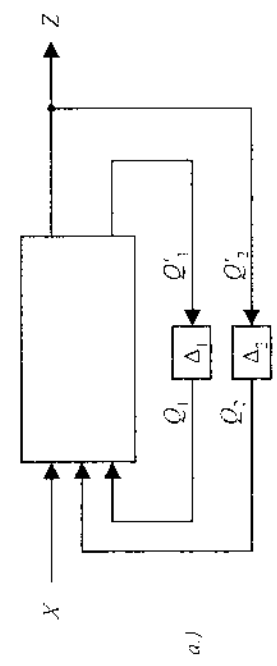
Huffman táblák

stabil , ha  $Q' = Q$   
 instabil , ha  $Q' \neq Q$

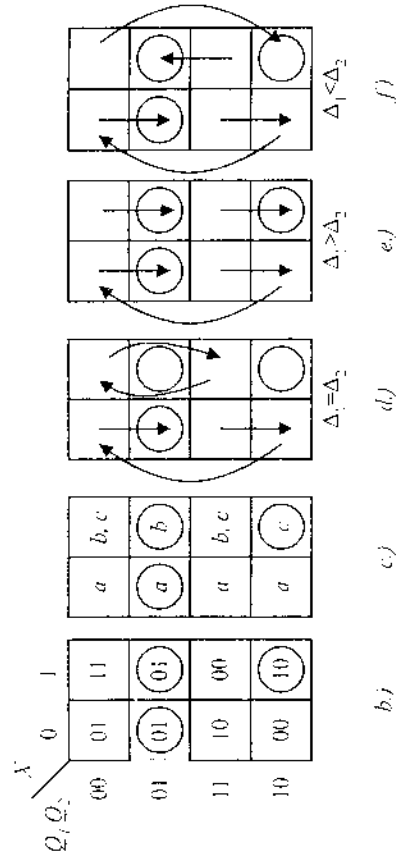


b.)

Sztatikus hazárd keletkezése és kiküszöbölése



a.)



b.)

c.)

d.)

e.)

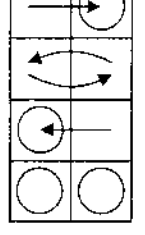
f.)

a.)

Q		AB			
		00	01	11	10
Q'	0	0	0	1	1
	1	1	0	0	1

Gerjesztési tábla

Q'



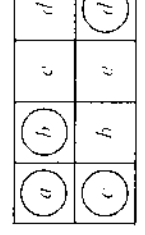
Átmeneti tábla

b.)

Q		AB			
		00	01	11	10
Z	0	0	0	0	0
	1	1	0	0	0

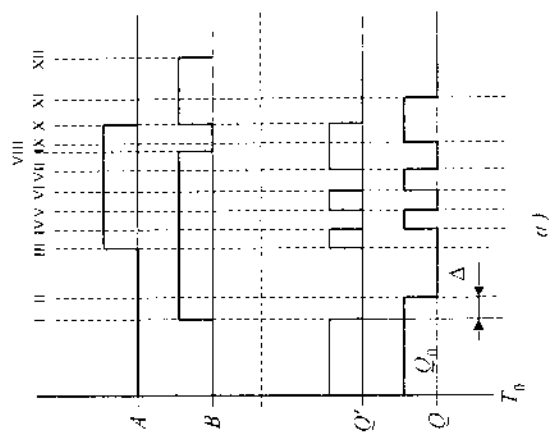
Kimeneti tábla

Z



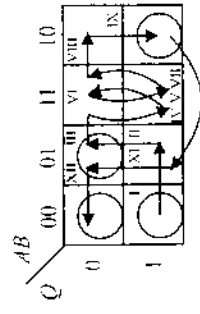
Állapot tábla

Jellemző táblák



a.)

Q'



b.)

Vizsgálati ciklus idődiagramon és V-K táblán