produis

Arden's Theorm-if R=Q+RP then R=QP*

Find Req. expr. corresponding to

$$\begin{array}{l} 9_{1} = 9_{1}0 + 9_{3}0 + 9_{4}0 + \stackrel{\leftarrow}{=} - \stackrel{\frown}{0} \\ 9_{2} = 9_{1}1 + 9_{2}1 + 9_{4}1 - \stackrel{\frown}{2} IniFal \end{array}$$

$$\begin{array}{l} 9_{3} = 9_{2}0 - \stackrel{\frown}{3} \quad 9_{4} = 9_{3}1 - \stackrel{\frown}{4} \end{array}$$

 $\begin{array}{lll} put & \text{(4)} & \text{in (2)} \\ q_2 &=& q_1 1 + q_2 1 + q_2 0 1 1 \\ q_2 &=& q_1 1 & (1 + 0 1 1)^{\frac{1}{2}} - & \text{(5)} \\ \text{(1)} & \text{(3)} & \text{(and (4))} & \text{(in (q, 1))} \\ q_1 &=& q_1 0 + q_2 0 0 + q_2 0 1 0 + \text{(4)} \\ &=& q_1 0 + q_2 & (00 + 0 1 0) + \text{(4)} \\ &=& q_1 0 + q_1 & (1 + 0 1 1)^{\frac{1}{2}} & (00 + 0 1 0) + \text{(4)} \end{array}$

 $= (0+1(1+011)^{4}(00+010))^{4}1(1+011)^{4}01$