

7. Синтез комбинационных схем в универсальных базисах

$$f = (x_2 \vee x_3 \vee x_1 x_5) (\bar{x}_3 \vee (x_2 \vee \bar{x}_5) (x_1 \vee \bar{x}_2) (\bar{x}_2 \vee \bar{x}_4 \vee x_5)) \\ ((\bar{x}_1 \vee x_4) (x_5 \vee \overset{144}{x_2} x_3))$$

7.1 Базис (Или - He)

$$f = (x_2 \vee x_3 \vee x_1 x_5) (\bar{x}_3 \vee (x_2 \vee \bar{x}_5) (x_1 \vee \bar{x}_2) (\bar{x}_2 \vee \bar{x}_4 \vee x_5)) \\ ((\bar{x}_1 \vee x_4) (x_5 \vee x_2 x_3))$$

$$= \overline{x_2 \vee x_3 \vee \overline{\bar{x}_1 \vee \bar{x}_5}} \vee \overline{\bar{x}_3 \vee \overline{x_2 \vee \bar{x}_5} \vee \overline{x_1 \vee \bar{x}_2} \vee \overline{\bar{x}_2 \vee \bar{x}_4 \vee x_5}} \vee \\ \overline{\overline{\bar{x}_1 \vee x_4} \vee \overline{x_5 \vee \overline{\bar{x}_2 \vee \bar{x}_3}}}$$

$$= ((x_2 \downarrow x_3 \downarrow (\bar{x}_1 \downarrow \bar{x}_5)) \downarrow (\bar{x}_3 \downarrow ((x_2 \downarrow \bar{x}_5) \downarrow (x_1 \downarrow \bar{x}_2) \downarrow (\bar{x}_2 \downarrow \bar{x}_4 \downarrow x_5))) \\ \downarrow (\bar{x}_1 \downarrow x_4) \downarrow (x_5 \downarrow (\bar{x}_2 \downarrow \bar{x}_3))) \quad (1)$$