

Практическая работа №5

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Дана функция (ДНФ):

$$F = ABC\bar{D} + \bar{A}BC + \bar{D}$$

		$\xrightarrow{\hspace{1cm}}$ C		$\xrightarrow{\hspace{1cm}}$ D
AB/CD	00	01	11	10
00	1	0	0	1
01	1	0	1	1
11	1	0	0	1
10	1	0	0	1

СКНФ $F = (A \vee B \vee C \vee \bar{D}) \wedge (A \vee B \vee \bar{C} \vee \bar{D}) \wedge (A \vee \bar{B} \vee C \vee \bar{D}) \wedge (\bar{A} \vee B \vee C \vee \bar{D}) \wedge (\bar{A} \vee B \vee \bar{C} \vee \bar{D}) \wedge (\bar{A} \vee \bar{B} \vee C \vee \bar{D}) \wedge (\bar{A} \vee \bar{B} \vee \bar{C} \vee \bar{D})$

СДНФ $F = (\bar{A} \wedge \bar{B} \wedge \bar{C} \wedge \bar{D}) \vee (\bar{A} \wedge \bar{B} \wedge C \wedge \bar{D}) \vee (\bar{A} \wedge B \wedge \bar{C} \wedge \bar{D}) \vee (\bar{A} \wedge B \wedge C \wedge \bar{D}) \vee (\bar{A} \wedge B \wedge C \wedge D) \vee (A \wedge \bar{B} \wedge \bar{C} \wedge \bar{D}) \vee (A \wedge \bar{B} \wedge C \wedge \bar{D}) \vee (A \wedge B \wedge \bar{C} \wedge \bar{D}) \vee (A \wedge B \wedge C \wedge \bar{D})$

№	A	B	C	D	\overline{ABCD}	\overline{ABC}	F
0	0	0	0	0	0	0	1
1	0	0	0	1	0	0	0
2	0	0	1	0	0	0	1
3	0	0	1	1	0	0	0
4	0	1	0	0	0	0	1
5	0	1	0	1	0	0	0
6	0	1	1	0	0	1	1
7	0	1	1	1	0	1	1
8	1	0	0	0	0	0	1
9	1	0	0	1	0	0	0
10	1	0	1	0	0	0	1
11	1	0	1	1	0	0	0
12	1	1	0	0	1	0	1
13	1	1	0	1	0	0	0
14	1	1	1	0	0	0	1
15	1	1	1	1	0	0	0