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ОТЧЕТ

по лабораторной работе №3

по дисциплине КиДСВТ

Выполнил: Проверил:

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Гагуа Д. Р.

Минск 2021

**1 Комбинационный элемент 2И-2ИЛИ-2И-НЕ (NAOA2)**

Vdd (лог. 1)

GND (лог. 0)

&1

*a*

*b*



*d*

*c*

T33

11

T43

*4*

*2*

*a*

*b*

*c*

*d*

*y*

*y*

*1*

T83

T23

T73

T13

*6*

&1

T53

*5*

T63

*1*

*3*

**2 Таблица результатов моделирования схемы на переключательном уровне\***

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y1* | *y2* | *y3* | *y4* | *y5* | *y6* | *y7* | y8 |
| *0* | *0* | *0* | *0* | *1* | *1* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *0* | *0* | *0* | *1* | *1* | *1* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *0* | *0* | *1* | *0* | *1* | *1* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *0* | *0* | *1* | *1* | *1* | *П* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *0* | *1* | *0* | *0* | *1* | *П* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *0* | *1* | *0* | *1* | *1* | *П* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *0* | *1* | *1* | *0* | *1* | *П* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *0* | *1* | *1* | *1* | *1* | *П* | *1* | *1* | *1* | *1* | *1* | *1* | *1* |
| *1* | *0* | *0* | *0* | *1* | *1* | *1* | *1* | *П* | *1* | *1* | *1* | *1* |
| *1* | *0* | *0* | *1* | *1* | *1* | *П* | *1* | *П* | *1* | *1* | *1* | *1* |
| *1* | *0* | *1* | *0* | *1* | *1* | *1* | *П* | *П* | *1* | *1* | *1* | *1* |
| *1* | *0* | *1* | *1* | *0* | *0* | *0* | *0* | *0* | *П* | *0* | *П* | *П* |
| *1* | *1* | *0* | *0* | *0* | *0* | *0* | *0* | *0* | *П* | *П* | *0* | *0* |
| *1* | *1* | *0* | *1* | *0* | *0* | *0* | *0* | *0* | *П* | *П* | *0* | *0* |
| *1* | *1* | *1* | *0* | *0* | *0* | *0* | *0* | *0* | *П* | *П* | *0* | *0* |
| *1* | *1* | *1* | *1* | *0* | *0* | *0* | *0* | *0* | *П* | *0* | *0* | *0* |

*y\* -* состояние исправной схемы;

*yi* - состояние схемы с неисправностью i;

П - предыдущее состояние схемы;

З – транзистор закрыт;

О – транзистор открыт.

**Ниже приведены аналогичные таблицы для схем с конкретной неисправностью. После каждой таблицы приведены тесты для проверки конкретной неисправности:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y1* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *З* | *О* | *О* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *З* | *О* | *З* | *О* | *З* | *З* | *З* | *О* |
| *0* | *0* | *1* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *З* | *З* | *О* | *З* |
| *0* | *0* | *1* | *1* | *1* | *П* | *З* | *З* | *З* | *О* | *З* | *З* | *О* | *О* |
| *0* | *1* | *0* | *0* | *1* | *П* | *З* | *О* | *О* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *П* | *З* | *О* | *З* | *З* | *З* | *О* | *З* | *О* |
| *0* | *1* | *1* | *0* | *1* | *П* | *З* | *З* | *О* | *З* | *З* | *О* | *О* | *З* |
| *0* | *1* | *1* | *1* | *1* | *П* | *З* | *З* | *З* | *З* | *З* | *О* | *О* | *О* |
| *1* | *0* | *0* | *0* | *1* | *1* | *З* | *О* | *О* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *1* | *З* | *О* | *З* | *О* | *О* | *З* | *З* | *О* |
| *1* | *0* | *1* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *О* | *З* | *О* | *З* |
| *1* | *0* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *О* | *О* | *З* | *О* | *О* |
| *1* | *1* | *0* | *0* | *0* | *0* | *З* | *О* | *О* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *0* | *З* | *О* | *З* | *З* | *О* | *О* | *З* | *О* |
| *1* | *1* | *1* | *0* | *0* | *0* | *З* | *З* | *О* | *З* | *О* | *О* | *О* | *З* |
| *1* | *1* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *О* | *О* |

- неисправности типа «ПЗТ» транзистора T1:



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y2* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *О* | *З* | *О* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *З* | *О* |
| *0* | *0* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *О* | *З* | *З* | *О* | *З* |
| *0* | *0* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *О* | *О* |
| *0* | *1* | *0* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *З* | *О* |
| *0* | *1* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *О* | *О* | *З* |
| *0* | *1* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *О* | *О* |
| *1* | *0* | *0* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *П* | *З* | *З* | *З* | *О* | *О* | *З* | *З* | *О* |
| *1* | *0* | *1* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *О* | *З* | *О* | *З* |
| *1* | *0* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *О* | *О* | *З* | *О* | *О* |
| *1* | *1* | *0* | *0* | *0* | *0* | *З* | *З* | *О* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *З* | *О* |
| *1* | *1* | *1* | *0* | *0* | *0* | *З* | *З* | *О* | *З* | *О* | *О* | *О* | *З* |
| *1* | *1* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *О* | *О* |

- неисправности типа «ПЗТ» транзистора T2:



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y3* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *О* | *О* | *З* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *О* | *З* | *З* | *З* | *О* |
| *0* | *0* | *1* | *0* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *О* | *З* |
| *0* | *0* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *О* | *О* |
| *0* | *1* | *0* | *0* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *О* | *З* | *О* |
| *0* | *1* | *1* | *0* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *О* | *З* |
| *0* | *1* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *О* | *О* |
| *1* | *0* | *0* | *0* | *1* | *1* | *З* | *О* | *З* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *1* | *З* | *О* | *З* | *О* | *О* | *З* | *З* | *О* |
| *1* | *0* | *1* | *0* | *1* | *П* | *З* | *З* | *З* | *О* | *О* | *З* | *О* | *З* |
| *1* | *0* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *О* | *О* | *З* | *О* | *О* |
| *1* | *1* | *0* | *0* | *0* | *0* | *З* | *О* | *З* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *0* | *З* | *О* | *З* | *З* | *О* | *О* | *З* | *О* |
| *1* | *1* | *1* | *0* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *О* | *З* |
| *1* | *1* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *О* | *О* |

- неисправности типа «ПЗТ» транзистора T3:



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y4* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *З* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *З* | *З* | *О* |
| *0* | *0* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *З* | *О* | *З* |
| *0* | *0* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *З* | *О* | *О* |
| *0* | *1* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *О* | *З* | *О* |
| *0* | *1* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *О* | *О* | *З* |
| *0* | *1* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *О* | *О* |
| *1* | *0* | *0* | *0* | *1* | *П* | *З* | *О* | *О* | *З* | *О* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *П* | *З* | *О* | *З* | *З* | *О* | *З* | *З* | *О* |
| *1* | *0* | *1* | *0* | *1* | *П* | *З* | *З* | *О* | *З* | *О* | *З* | *О* | *З* |
| *1* | *0* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *З* | *О* | *О* |
| *1* | *1* | *0* | *0* | *0* | *0* | *З* | *О* | *О* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *0* | *З* | *О* | *З* | *З* | *О* | *О* | *З* | *О* |
| *1* | *1* | *1* | *0* | *0* | *0* | *З* | *З* | *О* | *З* | *О* | *О* | *О* | *З* |
| *1* | *1* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *О* | *О* |

- неисправности типа «ПЗТ» транзистора T4:



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y5* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *О* | *З* | *З* | *З* | *О* |
| *0* | *0* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *О* | *З* | *З* | *О* | *З* |
| *0* | *0* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *О* | *О* |
| *0* | *1* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *О* | *З* | *О* |
| *0* | *1* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *О* | *О* | *З* |
| *0* | *1* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *О* | *О* |
| *1* | *0* | *0* | *0* | *1* | *1* | *З* | *О* | *О* | *О* | *З* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *1* | *З* | *О* | *З* | *О* | *З* | *З* | *З* | *О* |
| *1* | *0* | *1* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *З* | *З* | *О* | *З* |
| *1* | *0* | *1* | *1* | *0* | *П* | *З* | *З* | *З* | *О* | *З* | *З* | *О* | *О* |
| *1* | *1* | *0* | *0* | *0* | *П* | *З* | *О* | *О* | *З* | *З* | *О* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *П* | *З* | *О* | *З* | *З* | *З* | *О* | *З* | *О* |
| *1* | *1* | *1* | *0* | *0* | *П* | *З* | *З* | *О* | *З* | *З* | *О* | *О* | *З* |
| *1* | *1* | *1* | *1* | *0* | *П* | *З* | *З* | *З* | *З* | *З* | *О* | *О* | *О* |

- неисправности типа «ПЗТ» транзисторов Т5



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y6* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *О* | *З* | *З* | *З* | *О* |
| *0* | *0* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *О* | *З* | *З* | *О* | *З* |
| *0* | *0* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *О* | *О* |
| *0* | *1* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *З* | *З* | *З* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *З* | *З* | *О* |
| *0* | *1* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *З* | *О* | *З* |
| *0* | *1* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *З* | *О* | *О* |
| *1* | *0* | *0* | *0* | *1* | *1* | *З* | *О* | *О* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *1* | *З* | *О* | *З* | *О* | *О* | *З* | *З* | *О* |
| *1* | *0* | *1* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *О* | *З* | *О* | *З* |
| *1* | *0* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *О* | *О* | *З* | *О* | *О* |
| *1* | *1* | *0* | *0* | *0* | *П* | *З* | *О* | *О* | *З* | *О* | *З* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *П* | *З* | *О* | *З* | *З* | *О* | *З* | *З* | *О* |
| *1* | *1* | *1* | *0* | *0* | *П* | *З* | *З* | *О* | *З* | *О* | *З* | *О* | *З* |
| *1* | *1* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *З* | *О* | *О* |

- неисправности типа «ПЗТ» транзисторов Т6



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y7* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *О* | *З* | *З* | *З* | *О* |
| *0* | *0* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *З* | *О* |
| *0* | *1* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *О* | *З* | *О* |
| *0* | *1* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *З* | *О* |
| *1* | *0* | *0* | *0* | *1* | *1* | *З* | *О* | *О* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *1* | *З* | *О* | *З* | *О* | *О* | *З* | *З* | *О* |
| *1* | *0* | *1* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *1* | *1* | *0* | *П* | *З* | *З* | *З* | *О* | *О* | *З* | *З* | *О* |
| *1* | *1* | *0* | *0* | *0* | *0* | *З* | *О* | *О* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *0* | *З* | *О* | *З* | *З* | *О* | *О* | *З* | *О* |
| *1* | *1* | *1* | *0* | *0* | *0* | *З* | *З* | *О* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *З* | *О* |

- неисправности типа «ПЗТ» транзисторов T7



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *a* | *b* | *c* | *d* | *y\** | *y8* | *Т1* | *Т2* | *Т3* | *Т4* | *Т5* | *Т6* | *Т7* | *Т8* |
| *0* | *0* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *О* | *З* | *З* | *З* | *З* |
| *0* | *0* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *О* | *З* | *З* | *О* | *З* |
| *0* | *0* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *О* | *З* | *З* | *О* | *З* |
| *0* | *1* | *0* | *0* | *1* | *1* | *О* | *О* | *О* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *0* | *1* | *1* | *1* | *О* | *О* | *З* | *З* | *З* | *О* | *З* | *З* |
| *0* | *1* | *1* | *0* | *1* | *1* | *О* | *З* | *О* | *З* | *З* | *О* | *О* | *З* |
| *0* | *1* | *1* | *1* | *1* | *1* | *О* | *З* | *З* | *З* | *З* | *О* | *О* | *З* |
| *1* | *0* | *0* | *0* | *1* | *1* | *З* | *О* | *О* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *0* | *1* | *1* | *1* | *З* | *О* | *З* | *О* | *О* | *З* | *З* | *З* |
| *1* | *0* | *1* | *0* | *1* | *1* | *З* | *З* | *О* | *О* | *О* | *З* | *О* | *З* |
| *1* | *0* | *1* | *1* | *0* | *П* | *З* | *З* | *З* | *О* | *О* | *З* | *О* | *З* |
| *1* | *1* | *0* | *0* | *0* | *0* | *З* | *О* | *О* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *0* | *1* | *0* | *0* | *З* | *О* | *З* | *З* | *О* | *О* | *З* | *З* |
| *1* | *1* | *1* | *0* | *0* | *0* | *З* | *З* | *О* | *З* | *О* | *О* | *О* | *З* |
| *1* | *1* | *1* | *1* | *0* | *0* | *З* | *З* | *З* | *З* | *О* | *О* | *О* | *З* |

- неисправности типа «ПЗТ» транзисторов T8



**3 Тест для проверки всех неисправностей заданного класса с учетом состязаний сигналов**

1101

0101

1101

1001

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