Таблицы истинности

Асинхронный RS триггер с прямыми входами

|  |  |  |  |
| --- | --- | --- | --- |
| R | S | Q | Q’ |
| 0 | 0 | Q0 | Q’0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 1 | - | - |

Асинхронный RS триггер с инверсными входами

|  |  |  |  |
| --- | --- | --- | --- |
| R | S | Q | Q’ |
| 0 | 0 | - | - |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 1 | Q0 | Q’0 |

Синхронный RS триггер

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C | R | S | Q | Q’ |
| 1 | 0 | 0 | - | - |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | Q0 | Q’0 |

S-триггер

|  |  |  |  |
| --- | --- | --- | --- |
| R | S | Q | Q’ |
| 0 | 0 | Q0 | Q’0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | 1 |

R-триггер

|  |  |  |  |
| --- | --- | --- | --- |
| R | S | Q | Q’ |
| 0 | 0 | Q0 | Q’0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 1 | 0 | 0 |

E-триггер

|  |  |  |  |
| --- | --- | --- | --- |
| R | S | Q | Q’ |
| 0 | 0 | Q0 | Q’0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 1 | Q0 | Q’0 |