Licznik synchroniczny mod 7 pozytywny w kodzie greya

|  |  |  |
| --- | --- | --- |
| LP. | Kod Binarny | Kod Graya |
| 0 | 0000 | 0000 |
| 1 | 0001 | 0001 |
| 2 | 0010 | 0011 |
| 3 | 0011 | 0010 |
| 4 | 0100 | 0110 |
| 5 | 0101 | 0111 |
| 6 | 0110 | 0101 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Stan | Wyjścia | | | Przejscie Stanu | Przełączanie | | |
| QC | QB | QA | TC | TB | TA |
| 0 | 0 | 0 | 0 | 0-->1 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 1-->2 | 0 | 1 | 1 |
| 2 | 0 | 1 | 1 | 2-->3 | 0 | 1 | 0 |
| 3 | 0 | 1 | 0 | 3-->4 | 1 | 1 | 0 |
| 4 | 1 | 1 | 0 | 4-->5 | 1 | 1 | 1 |
| 5 | 1 | 1 | 1 | 5-->6 | 1 | 0 | 1 |
| 6 | 1 | 0 | 1 | 6-->0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0-->1 | 0 | 0 | 1 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tabela Prawdy | | | | | | | |
| LP | Q3 | Q2 | Q1 |  | Q3 | Q2 | Q1 |
| 0 | 0 | 0 | 0 |  | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 |  | 0 | 1 | 1 |
| 2 | 0 | 1 | 1 |  | 0 | 1 | 0 |
| 3 | 0 | 1 | 0 |  | 1 | 1 | 0 |
| 4 | 1 | 1 | 0 |  | 1 | 1 | 1 |
| 5 | 1 | 1 | 1 |  | 1 | 0 | 1 |
| 6 | 1 | 0 | 1 |  | 0 | 0 | 0 |
| 7 | - | - | - |  | - | - | - |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | J | K |
| 0 | 0 | 0 | - |
| 0 | 1 | 1 | - |
| 1 | 0 | - | 1 |
| 1 | 1 | - | 0 |

|  |  |  |
| --- | --- | --- |
| J3 | | |
| Q3Q2\Q1 | 0 | 1 |
| 00 | **0** | **0** |
| 01 | **1** | **0** |
| 11 | **-** | **-** |
| 10 | **-** | **-** |

|  |  |  |
| --- | --- | --- |
| K3 | | |
| Q3Q2\Q1 | 0 | 1 |
| 00 | **-** | **-** |
| 01 | **-** | **-** |
| 11 | **0** | **0** |
| 10 | **-** | **1** |

|  |  |  |
| --- | --- | --- |
| K2 | | |
| Q3Q2\Q1 | 0 | 1 |
| 00 | **-** | **-** |
| 01 | **0** | **0** |
| 11 | **0** | **1** |
| 10 | **-** | **-** |

|  |  |  |
| --- | --- | --- |
| J2 | | |
| Q3Q2\Q1 | 0 | 1 |
| 00 | **0** | **1** |
| 01 | **-** | **-** |
| 11 | **-** | **-** |
| 10 | **-** | **0** |

|  |  |  |
| --- | --- | --- |
| J1 | | |
| Q3Q2\Q1 | 0 | 1 |
| 00 | **1** | **-** |
| 01 | **0** | **-** |
| 11 | **1** | **-** |
| 10 | **-** | **-** |

|  |  |  |
| --- | --- | --- |
| K1 | | |
| Q3Q2\Q1 | 0 | 1 |
| 00 | **-** | **0** |
| 01 | **-** | **1** |
| 11 | **-** | **0** |
| 10 | **-** | **1** |