|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | | F(X) = X1.S1 XOR X2.S2 | | | |
| X1 | X2 | S = 00 | S = 01 | S = 10 | S = 11 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 | 1 |
| 1 | 0 | 0 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 | 1 | 0 |
|  |  | All zero’s | X2 | X1 | X1 XOR X2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | | Uf | | | |
| X1 | X2 | S = 00 | S = 01 | S = 10 | S = 11 |
| 0 | 0 | ½ | ½ | ½ | ½ |
| 0 | 1 | ½ | -½ | ½ | -½ |
| 1 | 0 | ½ | ½ | -½ | -½ |
| 1 | 1 | ½ | -½ | -½ | ½ |

