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Cartão UFRGS: 00342337

Diagrama

Descrição gerada automaticamenteCircuito:

1. Tabela Verdade:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| a | b | c | d | f1 | f2 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 0 | 0 | 1 |
| 0 | 1 | 1 | 1 | 0 | 1 |
| 1 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 0 | 1 |
| 1 | 0 | 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 | 0 | 1 |
| 1 | 1 | 0 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 | 0 | 0 |
| 1 | 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 0 | 0 |

1. Número Inteiro:

f1 (a, b, c, d) = 0001 0000 0000 0000bin = 1000hex

f2 (a, b, c, d) = 0000 1111 1110 1110bin = 0FEEhex

1. ROBDD:

* f1(a, b, c, d):

Forma, Seta

Descrição gerada automaticamente

* f2(a, b, c, d):

Uma imagem contendo balança, pendurado, colar, mesa

Descrição gerada automaticamente

1. Diagrama de Veitch:

* f1 (a, b, c, d):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | cd | | | |
| ab | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | 1 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |

* f2 (a, b, c, d):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | cd | | | |
| ab | 00 | 01 | 11 | 10 |
| 00 | 0 | 1 | 1 | 1 |
| 01 | 0 | 1 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 1 | 1 |