Практическое задание №4

* Для полученной СКНФ функции из практического задания №3 найти все минимальные формы методом Квайна-Мак-Класки в классе КНФ.
* Посчитать сложность S полученной функции

СКНФ:

f(x)=

S=70

|  |  |  |  |
| --- | --- | --- | --- |
| M1  1  2  3  4  5  6  7  8  9  10  11  12  13  14 | 10000 +  00101+  01010+  10001+  10010+  10100+  11000+  00111+  01011+  01101+  01110+  10011+  10101+  11110+ | M1H  1000-(1,4)+  100-0(1,5)+  10-00(1,6)+  1-000(1,7)  001-1(2,8)  0-101(2,10)  -0101(2,13)  0101-(3,9)  01-10(3,11)  100-1(4,12)+  10-01(4,13)+  1001-(5,12)+  1010-(6,13)+  -1110(11,14) | M1HH  100--(1,4)(5,12)  10-0-(1,4)(6,13)  ~~100--(1,5)(4,12)~~  ~~10-0-(1,6)(4,13)~~ |

MP={1-000, 001-1, 0-101, -0101, 0101-, 01-10, -1110, 100--, 10-0-}

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 00101 | 00111 | 01010 | 01011 | 01101 | 01110 | 10000 | 10001 | 10010 | 10011 | 10100 | 10101 | 11000 | 11110 |
| A 1-000 |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |
| B 001-1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| C 0-101 |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |
| D -0101 | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |
| E 0101- |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |
| F 01-10 |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |
| G -1110 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| H 100-- |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |
| I 10-0- |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |

{B, E, C, H, I, A, G}

S=26