课程：数字逻辑设计

教师：王总辉

姓名：陈潼

学号：3150104012

班级：混合1501

专业：计科

联系方式：943366483@qq.com 188 6715 5676

作业2

2-1



|  |  |  |  |
| --- | --- | --- | --- |
| X | Y | Z |  |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 0 |

2-2

a)

c)

2-3

a)

c)

2-6

b)

d)

2-10

a)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | Y | Z |  |  | (XY+Z)(Y+XZ) |
| 0 | 0 | 0 | m0 | M0 | 0 |
| 0 | 0 | 1 | m1 | M1 | 0 |
| 0 | 1 | 0 | m2 | M2 | 0 |
| 0 | 1 | 1 | m3 | M3 | 0 |
| 1 | 0 | 0 | m4 | M4 | 0 |
| 1 | 0 | 1 | m5 | M5 | 1 |
| 1 | 1 | 0 | m6 | M6 | 1 |
| 1 | 1 | 1 | m7 | M7 | 1 |

c)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| W | X | Y | Z | m | M |  |
| 0 | 0 | 0 | 0 | m0 | M0 | 0 |
| 0 | 0 | 0 | 1 | m1 | M1 | 1 |
| 0 | 0 | 1 | 0 | m2 | M2 | 0 |
| 0 | 0 | 1 | 1 | m3 | M3 | 0 |
| 0 | 1 | 0 | 0 | m4 | M4 | 0 |
| 0 | 1 | 0 | 1 | m5 | M5 | 1 |
| 0 | 1 | 1 | 0 | m6 | M6 | 0 |
| 0 | 1 | 1 | 1 | m7 | M7 | 0 |
| 1 | 0 | 0 | 0 | m8 | M8 | 0 |
| 1 | 0 | 0 | 1 | m9 | M9 | 1 |
| 1 | 0 | 1 | 0 | m10 | M10 | 0 |
| 1 | 0 | 1 | 1 | m11 | M11 | 0 |
| 1 | 1 | 0 | 0 | m12 | M12 | 1 |
| 1 | 1 | 0 | 1 | m13 | M13 | 1 |
| 1 | 1 | 1 | 0 | m14 | M14 | 1 |
| 1 | 1 | 1 | 1 | m15 | M15 | 1 |

2-11

d)

2-12

2-13

a) 

c) 