

# 代数结构第六次习题答案

朱平

zhuping@mail.ustc.edu.cn

I. 习题19:求两变量相同时函数值取1的开关函数的小项表达式

$$\begin{aligned}f(x_1, x_2) &= f(0, 0)x_1^0x_2^0 + f(0, 1)x_1^0x_2^1 + f(1, 0)x_1^1x_2^0 + f(1, 1)x_1^1x_2^1 \\&= 1 * x_1^0x_2^0 + 0 * x_1^0x_2^1 + 0 * x_1^1x_2^0 + 1 * x_1^1x_2^1 \\&= x_1x_2 + \bar{x}_1\bar{x}_2\end{aligned}\tag{1}$$