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1.18 考虑下列定义在 Z。上的四级线性递归序列

$$z_{i+4} = (z_i + z_{i+1} + z_{i+2} + z_{i+3}) \operatorname{mod} 2$$

 $i \ge 0$ 。 对其 16 种可能的初始向量 $(z_0, z_1, z_2, z_3) \in (\mathbb{Z}_2)^4$,分别求出其生成的密钥流的周期。

| Current state | Next state | 1000 J 11.0 | >> on ~ |
|---------------|-------------|--|-------------|
| [24.14.24.84] | [K:X:X1:X1] | د (اه | 1.11 |
| 0000 | 0000 | le au 1 | Y V |
| 9701 | 1000 | 8 3 I) — | 11- 6- 1101 |
| 00/0 |] 00 [| 1 a.al | |
| 0011 | 000 | ه ادما ح | |
| 0)00 | 1010 | 0100 | |
| 0101 | 0 0 0 | K * | |
| 0110 | 001 | 0 0 - 0 0 | |
| 0111 | 1011 | 111 | |
| 1000 | 1100 | 7 07 1 年 417 | |
| 1001 | 0/00 | 洛州流和周期为了. | |
| 10/0 | 0 0 | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | |
| 1011 | 1101 | | |
| 1 1 00 | 0110 | 333 | |
| i 1 0 l | 1110 | ~) | |
| 1110 | liii | \bigcirc | |
| 1111 | 0111 | ामधीक व स्टाउट | |
| | • • • | - 洛利流际周期为1. | • |

1.21 以下给出的四段密文,第一个是由代换密码加密而成,第二个是由维吉尼亚密码 加密而成,第三个是由仿射密码加密而成,最后一个不知其具体的密码体制,试 从密文确定明文。要求给出清晰的分析过程,包括统计分析和你进行的计算。

(b)维吉尼亚密码

KCCPKBGUFDPHQTYAVINRRTMVGRKDNBVFDETDGILTXRGUD DKOTFMBPVGEGLTGCKQRACQCWDNAWCRXIZAKFTLEWRPTYC QKYVXCHKFTPONCQQRHJVAJUWETMCMSPKQDYHJVDAHCTRL SVSKCGCZQQDZXGSFRLSWCWSJTBHAFSIASPRJAHKJRJUMV GKMITZHFPDISPZLVLGWTFPLKKEBDPGCEBSHCTJRWXBAFS PEZQNRWXCVYCGAONWDDKACKAWBBIKFTIOVKCGGHJVLNHI FFSQESVYCLACNVRWBBIREPBBVFEXOSCDYGZWPFDTKFQIY CWHJVLNHIOIBTKHJVNPIST

由温数重点法: mal 时: Iu2 0.041

m=2 At: I420.03] IL220.04]

m=3 AT: Iy=0.053 Ic=0.048 Iy=0.048

m24 # : I4 20.035 [1220.043 IB20.03] IN=0.049

mat # : In = 0.042 Icu = 0.043 Ig = 0.033 Icy = 0.043 Icy = 0.043

mub # : It = 0.017 Ica = 0.084 Ics = 0.048 Icg = 0.064 Icg = 0.043 Ich = 0.013

所以密钥卡度为b,求mg比较有:

Md (5) = 0.010 Md (1) = 0.021

Mg (24) 2 0.070

数1/212,7,24,17,19,14)

团的,啊又说:

I learned how to calculate the amount of people needed for a norm when I was at school you multiply the square foot age of the holds by the cubic contents of the floor and calling combined and almostelet you then allow holf the total for openings such as windows and clows then you allow the other holf for mutching the parttern then you double the whole thing again to give a mongin of ever and then you order the paper