解了:(1)(甲)2种社发芽互相独立 没A为甲发芽,B为 2发芽 Mp(A)=0.8. P(B)=0.9 P(AB) = P(A) P(B) = 0.72. 故两彩都发芽观东至为0.72 (2) P(AUB)=1-P(AB)=1-P(A)-P(B)=1-LQ1-P(A)][1-P(B)] =1-02X071=0.98 放至少有小粒发弃根色率为0.98 (13) P(ABUAB) = P(AB)+P(AB) = P(A)[1-P(B)]+P(B)[1-P(A)] 二0.8×0.1+0.9×0.2=0.26 校16有1粒发芽概率为0.26 J 15

解43 (1): 设在对第二个射手命中(22/11)(1) P(A, A, A, -. An) = P(A,) P(A,) ... P(An) = [1-P(A)][1-P(A)] ··· LI-P (4n)] = (1-P1) (1-P2) (1-P3)-1. (1-P1) = 1 (1-P5) 放新未命中的极处军为 of CIP的 (>) P (A, UAz UAz - VAn) = 1 - P (A, Az - An) = 1 - TT (1-Ps) 放到有10人命中的视死率为1-15 (1-Pi) 研始: 该五千系降统 正常的概率分别为日、好一、分 PRIATE PEAN (AZAZ UAGAT)] = P(A, A2A3 U A, A4AS) = P(A, A2AS) + P(A, A4AS) - P(A, A2ASA4AS) = P(A1) P(A2) P(A3) + D(A1) D(A4) P(A1) -P(A1) P(A2) P(A3) P(A4) P(A4) = PIP2 P3 + PIP4P5 - PIP2P3P4PJ = PICP2P3+P4PJ - PSP3P4PJ) 对系统 2; P[A31(A1UA4) n (AZUA4)] U A3 (A1AZ VA4AJ)] = P [A3 (A1UA4) (A2UA5)] + P (A3 A1A2 U A3 A4A5) - P(A3) P(A1VA4) P(A2VAS) + P(A3A1A2) + P(A3A4A5) - P(A1A2A3A4A5) = P(A3) [P(4,) + P(44) - P(A,A4)] [P (A2)+ P(A5) - P(A2A5)] + P (43) 12(4,) P (A2) + P(A3) P(A4) P(A) - P(A1) P(A2) P(A3) P(A2) P(A) = P3 [P1+P4-P1P4) (P2+P5-BB) +0(1-P3) (P1B+P4P5-RP4P) 方文示院2可義1生为 P3 (P1+P4-P1P4)(P2+P5-P2P5) + (1-P3)(P)P2+P4P5-P1P2P4P5) 解 47: CI)沒Ai表 京一个零件由第三台 车床生产 P(41)=3, P(42)=3 设B为一件零件是合格品 P(B) = P(A) P(B|A) + P(A2) P(B|A2) = = = x 0.97 + = x 0.94 = 0.96 拔-午零件 台档品的概率为0.96

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(2) P(A_2|B) = \frac{P(B|A_2)P(A_2)}{P(B)} = P(B|A_2)P(A_2) / [P(B|A_1)P(A_1) + P(B|A_2)P(A_2)]
     =(=x0,06)/(=x0.03+=x0.06) = 0.5
       故是由第二分车床生产的根据车为05.
 解49: 沒至白环为A,我就为A、摸红球的为白环为B
        p(A_1) = p(A_2) = \frac{1}{2} p(B|A_1) = \frac{Cm}{(2m-1)} p(B|A_2) = \frac{Cm}{(2m-1)} p(B|A_1)
 P(A1|B) = P(A1) P(B|A1) / [p(A1) P(B|A1) + p(A2) P(B|A2)] = P(B|A2) P(B|A2)
P(A=1B) = P(A=) P(B|A=) / [P(A1) P(B|A1) + P(A=) P(B|A=)] = P(B|A1)+P(B|A=)
  \times m73, P(BB|Ai) = \frac{(\frac{2}{m-1} - \frac{m-2}{2(2m-1)})}{(\frac{2}{m-1} - \frac{m-2}{2(2m-1)})} < P(B|Az) = \frac{(\frac{2}{m} - \frac{m}{2(2m-1)})}{(2m-1)}
                                         =) p(a,1B) < p(a,21B)
       故多黑 部面 概率更大
 解53 : 设A,AzA3A4分别表示从甲中乳面三下部为3后,
         261 思,2黑帕, 3黑。 13为从2中获出版是自体
= \frac{G}{G} = \frac{1}{33} , P(A) = \frac{G^2G'}{G} = \frac{12}{33} , P(A) = \frac{G'(G)}{G} = \frac{12}{33} , P(A) = \frac{G'(G)}{G} = \frac{12}{33}
  P(B|A_1) = \frac{13}{55}, P(B|A_2) = \frac{13}{55} P(B|A_3) = \frac{11}{55} P(B|A_4) = \frac{10}{55}
 P(B) = P(A1) P(B|A1) + P(A2) P(B|A2) + P(A3) P(B|A3) + P(A4) P(B|A4)
       二录x学+35x学+35x学+35x完=扩
           放换出的可是白矿的概率为 fi
 再子6:发内为该人带菌,B为该人的2次即使1次阳性
    P(A)=0,1, p(A)=0,9, P(BIA) = C3 6.95), 0,05
                             PIBIA) = (3 6.01] .0.99
    P(A|B) = \frac{P(A) \cdot P(B|A)}{P(A) \cdot P(B|A) + P(A) \cdot P(B|A)}
                011. (3-(0.91)2,005 = 0.9806.
                   0.1. (3.6.95) 0.05 + 0.9. (32.60.01).0,99
     好该人为带面着的 概转为 o.9806
                                                                        JI
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