2025.9.17 HWI (1) ABUACUBC 12) ABUACUBC (3) ABCUABCUABC 或 ABC (4) AUBUC Alo A12 (1) 有: 2×3×2



A15. (1)
$$P_1 = \frac{1}{9}$$

$$P_{i} = P(C) - P(A) = 0.1$$

B2.
$$P = \frac{1}{C_{50}^2} = \frac{1}{1225}$$
.

$$=\frac{6}{10}\times\frac{1}{2}+\frac{8}{15}\times\frac{1}{2}=\frac{17}{30}$$

$$=\frac{3}{7}\times\frac{3}{5}\times\frac{2}{7}\times\frac{2}{5}=\frac{13}{35}$$

$$P(C|B) = \frac{P(B(A_1)P(A_1) + P(BC(A_2)P(A_2))}{P(B)}$$

$$= \frac{1}{3} \times \frac{20}{29} \times \frac{1}{2} + \frac{3}{4} \times \frac{5}{19} \times \frac{1}{2} = \frac{2825}{7163}$$

B7.(1) A:系统正常工作. X=P(A)= P.P.BBP4+P.P.P. (1-P4)+ P. P2 P4 (1-P3)+ P. P. P4 (1-P2)+ BBPO-H-Pi). (3) B: 恰有2次正常工作. RIX=P(B)= (3(1-x)2=3(1-x)22 B8. 设A:出现雾霾, B: 居民戴口罩 (1) P(B) = P(B|A) P(A) + P(B|A) P(A) = 10.2x0.4+0.01x0.6 (BIA, N. (A,)+ PIB/A) PIB) 280.0 = (2) (:至少有1位居民戴口罩 P(C)= P(CIA) P(A)+P(CIA)P(A) = (1-0.85) x0.4+ (1-0.993) x0.6 = 0 1952 + 0.599999 0.0178206 6.7951994 0.213020b

Blo. 记A::飞机坠落在;区域(i=1:A;2:B;3:C). B:有残骸被发现 C:搜索3A,B均无残骸发现 P(Az) P(C/Az) P(As |C) = P(C|A,)P(A,) + P(C|A) P(Az) + P(C|Az)P(Az). XO. PIA)=(=)+(=)5+... A:甲胜利 B: 2 HE 41 C:两胜利 P(B)= 7 P(C) = 2x((生)3+(生)6+...) 丙