

ES 14-03-2019

FOENITORE

DEFETTOSO

$$P(A): 18\%$$

$$P(h|A) \rightarrow 10\%$$

h = il componente difettoso

$$P(B): 46\%$$

$$P(h|B) \rightarrow 6\%$$

$$P(C): 36\%$$

$$P(h|C) \rightarrow 3\%$$

$$P(A|h) = P(A) \frac{P(h|A)}{P(h)}$$

$$P(h) = P(h|A) \cdot P(A) + P(h|B) \cdot P(B) + P(h|C) \cdot P(C)$$

$$P(h) = \frac{18}{100} \cdot \frac{18}{100} + \frac{6}{100} \cdot \frac{46}{100} + \frac{3}{100} \cdot \frac{36}{100}$$
$$= 0,0564$$

$$P(A|h) = \frac{18}{100} \cdot \frac{\frac{18}{100}}{0,0564} = \frac{18}{100} \cdot \frac{0,1}{0,0564} = 0,3191483361$$

$$P(B|h) = \frac{46}{100} \cdot \frac{\frac{6}{100}}{0,0564} = 0,48336170212$$

$$P(C|h) = \frac{36}{100} \cdot \frac{\frac{3}{100}}{0,0564} = 0,191489361702$$