





Assignment: Introduction To Probability

Undergraduate of Telecommunication Engineering

MUH1F3 - PROBABILITY AND STATISTICS

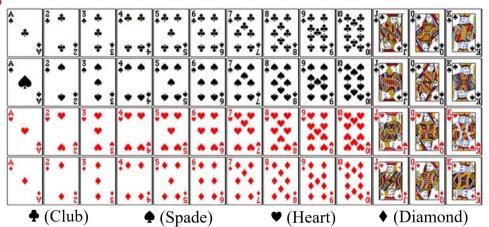
Telkom University Center of eLearning & Open Education Telkom University Jl. Telekomunikasi No.1, Bandung - Indonesia

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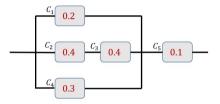




- 1. An attempt will be made to pick up one bridge card randomly (out of a total of 52 cards). Determine the probability:
 - a. One card drawn is a card & AND .
 - b. One card drawn is a card 幕 OR 🏟
 - c. One card drawn is a card ♣ OR ♦
 - d. One card drawn is a card ♥ OR ♦
- 2. If **A** and **B** are independent event, with $P(A \cap B) = 0.16$ and $P(\overline{A \cup B}) = 0.36$. Calculate the P(A) dan P(B)!
- 3. Known P(A) = 0.2, P(B) = 0.3 and $P(A \cup B) = 0.44$. Are A and B independent?
- 4. Known $P(A) = P(B) = \mathfrak{p}$, $P(A \cup B) = 0.7$ and $P(A \cap B) = 0.2$. Calculate:
 - 4.1 p
 - 4.2 If $P(B \cup C) = 0.7$, B and C are independent, calculate P(C)



Given the relay circuit as shown below, it is assumed that each component works independently and the change of component failure indicated on each block. Calculate the system reliability!



6. Given the relay circuit as shown below, it is assumed that each component works independently and the chance of component failure is **0.1**. Calculate the system reliability!

