

Lecture Notes: Axioms and Fundamentals

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1 Overview

Key Points

- Core rules of probability
- Key point 2
- Key point 3

2 Detailed Notes

2.1 Axioms of Probability

The axioms of probability are mathematical rules that probability must follow. If A and B are events. Let $P(A)$ demonstrate the probability of the event. The 3 axioms are:

- The probability of every event is at least 0
- The probability for something in the outcome space to occur is 100% (This is because the outcome space holds all the possible outcomes)
- If two events are disjoint, the probability that either of the events happens is the sum of the probabilities that each happen

2.2 Subtopic 2

Your notes for subtopic 2

3 Important Formulas/Theorems

Key Formula/Theorem

State an important formula or theorem here

4 Examples

The Uniform Probability Distribution

5 Questions/Topics for Further Study

- Question or topic for further study