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Introduction Probability theory can be understood as a mathematical model for the in-tuitive notion of uncertainty. Without probability theory all the stochastic models in Physics, Biology, and Economics would either not have been developed or would not be rigorous. Also, probability is used in many branches of

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## **Probability theory - Wikipedia**

An Introduction to Discrete Probability 5.1 Sample Space, Outcomes, Events, Probability Roughly speaking, probability theory deals with experiments whose outcome are not predictable with certainty. We often call such experiments random experiments. They are subject to chance. Using a mathematical theory of probability, we may be

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## **Chapter 5 An Introduction to Discrete Probability**

The probability of drawing a 'not ace' on the first card is  $(52-4) \div 52 = 48 / 52$ . The probability of drawing an ace on the second card is  $4 / 51$ . The probability of drawing Not Ace AND Ace is therefore  $48 / 52 \times 4 / 51 = 16 / 221$ . Note that in this case, this is the same as Ace-Not Ace. This will not always follow for all scenarios.

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Authors: Vijay\_K.\_Rohatgi,\_A.\_K.\_Md.\_Ehsanes\_Saleh

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probability is covered, students should have taken as a prerequisite two terms of calculus, including an introduction to multiple integrals. In order to cover Chapter 11, which contains material on Markov chains, some knowledge of matrix theory is necessary. The text can also be used in a discrete probability course. The material has been



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of probability is useful in a broad variety of contexts, including some where the assumed probabilities only reflect subjective beliefs. There is a large body of successful applications in science, engineering, medicine, management, etc., and on the basis of this empirical evidence, probability theory is an extremely useful tool.

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