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Modern and measure-theory based, this text is intended primarily for the first-year graduate course in probability theory. The book focuses attention on examples while developing theory. There is an emphasis on results that can be used to solve problems in the hopes that those who apply probability to work will find this a useful reference.

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Probability theory is a field with one foot in examples and applications and the other in theory. The thing that this book does better than others, except perhaps for the beautiful, but infinitely long Feller, is that it pays homage to the applications of probability theory. This should be expected, judging from the title.

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Example 1.1.1. Discrete probability spaces. Let  $\Omega = a$  countable set, i.e., finite or countably infinite. Let F = the set of all subsets of  $\Omega$ . Let  $P(A) = X \omega \in A p(\omega)$  where  $p(\omega) \ge 0$  and  $X \omega \in \Omega p(\omega) = 1$  A...

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The title of the book indicates that as we develop the theory, we will focus our attention on examples. Hoping that the book would be a useful reference for people who apply probability in their work, we have tried to emphasize the results that are important for applications, and illustrated their use with roughly 200 examples.

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background in measure theory can skip Sections 1.4, 1.5, and 1.7, which were previously part of the appendix. 1.1 Probability Spaces Here and throughout the book, terms being defined are set in boldface. We begin with the most basic quantity. A probability space is a triple  $(\Omega,F,P)$  where  $\Omega$  is a set of "outcomes," F is a set of "events ...

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Let X1 , X2 , X3 , X4 be independent and take values 1 and -1 with probability 1/2 each. Let Y1 = X1 X2 , Y2 = X2 X3 , Y3 = X3 X4 , and Y4 = X4 X1 . It is easy to see that P (Yi = 1) = P (Yi = -1) = 1/2. Since Y1 Y2 Y3 Y4 = 1, P (Y1 = Y2 = Y3 = 1, Y4 = -1) = 0 and the four random variables are not independent.

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