

Charles M. Grinstead and J. Laurie Snell:  
INTRODUCTION to PROBABILITY  
Published by AMS

Solutions to the exercises

SECTION 1.1

1. As  $n$  increases, the proportion of heads gets closer to  $1/2$ , but the difference between the number of heads and half the number of flips tends to increase (although it will occasionally be 0).
3. (b) If one simulates a sufficiently large number of rolls, one should be able to conclude that the gamblers were correct.
5. The smallest  $n$  should be about 150.
7. The graph of winnings for betting on a color is much smoother (i.e. has smaller fluctuations) than the graph for betting on a number.
9. Each time you win, you either win an amount that you have already lost or one of the original numbers 1,2,3,4, and hence your net winning is just the sum of these four numbers. This is not a foolproof system, since you may reach a point where you have to bet more money than you have. If you and the bank had unlimited resources it would be foolproof.
11. For two tosses, the probabilities that Peter wins 0 and 2 are  $1/2$  and  $1/4$ , respectively. For four tosses, the probabilities that Peter wins 0, 2, and 4 are  $3/8$ ,  $1/4$ , and  $1/16$ , respectively.
13. Your simulation should result in about 25 days in a year having more than 60 percent boys in the large hospital and about 55 days in a year having more than 60 percent boys in the small hospital.
15. In about 25 percent of the games the player will have a streak of five.

SECTION 1.2

1.  $P(\{a, b, c\}) = 1$        $P(\{a\}) = 1/2$   
 $P(\{a, b\}) = 5/6$        $P(\{b\}) = 1/3$   
 $P(\{b, c\}) = 1/2$        $P(\{c\}) = 1/6$   
 $P(\{a, c\}) = 2/3$        $P(\emptyset) = 0$
3. (b), (d)
5. (a)  $1/2$   
(b)  $1/4$   
(c)  $3/8$   
(d)  $7/8$
7.  $11/12$
9.  $3/4, 1$
11.  $1 : 12, 1 : 3, 1 : 35$
13.  $11:4$
15. Let the sample space be:  
 $\omega_1 = \{A, A\}$        $\omega_2 = \{B, A\}$        $\omega_7 = \{C, A\}$

# Introduction To Probability Solutions Manual Grinstead Snell

**Charles M. Grinstead, James Laurie  
Snell**



## **Introduction To Probability Solutions Manual Grinstead Snell:**

**Introduction to Probability** Charles Miller Grinstead, James Laurie Snell, 2012-10-30 This text is designed for an introductory probability course at the university level for sophomores juniors and seniors in mathematics physical and social sciences engineering and computer science It presents a thorough treatment of ideas and techniques necessary for a firm understanding of the subject The text is also recommended for use in discrete probability courses The material is organized so that the discrete and continuous probability discussions are presented in a separate but parallel manner This organization does not emphasize an overly rigorous or formal view of probability and therefore offers some strong pedagogical value Hence the discrete discussions can sometimes serve to motivate the more abstract continuous probability discussions Features Key ideas are developed in a somewhat leisurely style providing a variety of interesting applications to probability and showing some nonintuitive ideas Over 600 exercises provide the opportunity for practicing skills and developing a sound understanding of ideas Numerous historical comments deal with the development of discrete probability The text includes many computer programs that illustrate the algorithms or the methods of computation for important problems **Grinstead**

**and Snell's Introduction to Probability** Charles M. Grinstead, James Laurie Snell, 2009-09-24 This is an introductory probability textbook published by the American Mathematical Society It is designed for an introductory probability course taken by mathematics the physical and social sciences engineering and computer science students The text can be used in a variety of course lengths levels and areas of emphasis For use in a standard one term course in which both discrete and continuous 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 For use in a discrete probability course students should have taken one term of calculus as a prerequisite All of the computer programs that are used in the text have been written in each of the languages TrueBASIC Maple and Mathematica Contents 1 Discrete Probability Distributions 2 Continuous Probability Densities 3 Combinatorics 4 Conditional Probability 5 Distributions and Densities 6 Expected Value and Variance 7 Sums of Random Variables 8 Law of Large Numbers 9 Central Limit Theorem 10 Generating Functions 11 Markov Chains 12 Random Walks The text is best used in conjunction with software and exercises available online at [http://www.dartmouth.edu/chance/teaching\\_aids/books\\_articles/probability\\_book/book.htm](http://www.dartmouth.edu/chance/teaching_aids/books_articles/probability_book/book.htm) Mathematical Reviews, 1997

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 1997 **The Bulletin of Mathematics Books**, 1992 Introduction to Probability Joseph K. Blitzstein, Jessica Hwang, 2014-07-24 Developed from celebrated Harvard statistics lectures Introduction to Probability provides essential language and tools for understanding statistics randomness and uncertainty The book explores a wide variety of applications and examples ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo MCMC Additional *Catalogue*

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very frustrating

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new knock sensor in the place of the knock sensor by repeating the same procedure which was for removing the knock

sensor fix the cable assembly with the sensor as it was with the old knock sensor

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area with brake cleaner or carb cleaner mount new sensor with new bolt finger tight using the proper size torque wrench

without extensions torque to exactly 20nm spray area again with brake cleaner to clean any residual

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