Elementary probability theory

Probability

If an event E can happen in h ways out of a total of n possible equally likely ways then the probability of occurrence of the event is denoted by

$p = Pr\{E\} = \frac{h}{n}$

The probability of nonoccurrence of the event is denoted by

$q = Pr\{not\ E\} = \frac{n-h}{n} = 1 - \frac{h}{n} = 1 - p$

$p + q = 1$

$Probability = \frac{favorable\ cases}{total\ cases}$

Ex.9 A coin is tossed. Find the probability of getting (i) head (ii) tail (iii) head or tail.

$Pr\{H\} = \frac{1}{2}$

$Pr\{T\} = \frac{1}{2}$

$Pr\{H\ or\ T\} = \frac{2}{2} = 1$

Law of Addition

$Pr\{H\ or\ T\} = Pr\{H\} + Pr\{T\} = \frac{1}{2} + \frac{1}{2} = 1$

Ex.10 A die is tossed. Find the probability of getting (i) 4 (ii) not 4.

Elementary Probability A Calculating Approach 2e

JA Banks

Elementary Probability A Calculating Approach 2e:

Elementary Statistical Methods for Foresters Frank Freese,1967   *Business Analytics and Statistics, 2nd Edition* Ken Black,John Asafu-Adjaye,Paul Burke,Nazim Khan,Gerard King,Nelson Perera,Andrew Papadimos,Carl Sherwood,Saleh Wasimi,2024-04-08 Written for the Australian and New Zealand markets the second edition of Business Analytics Statistics Black et al presents statistics in a cutting edge interactive digital format designed to motivate students by taking the road blocks out of self study and to facilitate master through drill and skill practice   *Basic Statistical Methods and Models for the Sciences* Judah Rosenblatt,2017-07-12 The use of statistics in biology medicine engineering and the sciences has grown dramatically in recent years and having a basic background in the subject has become a near necessity for students and researchers in these fields Although many introductory statistics books already exist too often their focus leans towards theory and few help readers gain effective experience in using a standard statistical software package Designed to be used in a first course for graduate or upper level undergraduate students Basic Statistical Methods and Models builds a practical foundation in the use of statistical tools and imparts a clear understanding of their underlying assumptions and limitations Without getting bogged down in proofs and derivations thorough discussions help readers understand why the stated methods and results are reasonable The use of the statistical software Minitab is integrated throughout the book giving readers valuable experience with computer simulation and problem solving techniques The author focuses on applications and the models appropriate to each problem while emphasizing Monte Carlo methods the Central Limit Theorem confidence intervals and power functions The text assumes that readers have some degree of maturity in mathematics but it does not require the use of calculus This along with its very clear explanations generous number of exercises and demonstrations of the extensive uses of statistics in diverse areas applications make Basic Statistical Methods and Models highly accessible to students in a wide range of disciplines   **Advanced Mechanical Engineering II** Zhen Yu Du,Bin Liu,2012-07-26 Selected peer reviewed papers from the 2012 International Conference on Advanced Mechanical Engineering AME 2012 July 7 8 2012 Wuhan China   **Industrial Instrumentation and Control Systems II** Prasad Yarlagadda,Yun Hae Kim,2013-07-15 Selected peer reviewed papers from the 2013 2nd International Conference on Measurement Instrumentation and Automation ICMIA 2013 April 23 24 2013 Guilin China   **Elementary Forest Sampling & Elementary Statistical Methods for Foresters** Frank Freese,1981   *Basic Statistics and Pharmaceutical Statistical Applications, Second Edition* James E. De Muth,2006-05-10 The first edition of Basic Statistics and Pharmaceutical Statistical Applications successfully provided a practical easy to read basic statistics book This second edition not only updates the previous edition but expands coverage in the area of biostatistics and how it relates to real world professional practice Taking you on a roller coaster ride through the world of statistics Dr De Muth clearly details the methodology necessary to summarize data and make informed decisions about observed outcomes What s new or different in the Second Edition New chapters cover Measures of

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Himachal Pradesh (India),1962   *Current Index to Statistics, Applications, Methods and Theory* ,1996 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields   **Analyzing Multivariate Data** Paul E. Green,J. Douglas Carroll,1978 Single criterion multiple predictor association Multiple criterion multiple predictor association The analysis of interdependence   **Catalogue** Boston University,1962

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