Basic Statistics, 2022-23

Paper : STAT 705E

Solutions

① Short Questions:

a) Given A and B are independent.

Now,

$$P(A^c \cap B^c) = P(A \cup B)^c = 1 - P(A \cup B)$$
$$= 1 - [P(A) + P(B) - P(A \cap B)]$$
$$= 1 - P(A) - P(B) + P(A)P(B)$$

[∵ A, B are independent]

$$= [1 - P(B)] - P(A)[1 - P(B)]$$
$$= [1 - P(A)][1 - P(B)] = P(A)^c P(B)^c$$

∴ A^c and B^c are also independent.

b) $P(A \cup B) = P[A \cup (A^c \cap B)]$
$$= P(A) + P(A^c \cap B)$$
$$= P(A) + P(B) - P(A \cap B)$$

$\Rightarrow P(A \cup B) + P(A \cap B) = P(A) + P(B)$

$\Rightarrow P(A \cup B) \leq P(A) + P(B)$ [∵ $P(A \cap B) \geq 0$]

for mutually exclusive event

c) Given first 'N' natural numbers.

$$\text{Mean} = \frac{N+1}{2} = \frac{N(N+1)/2}{N}$$

Now, if N is odd, then

$$\text{Median} = \left(\frac{N+1}{2}\right) \text{th term.}$$

If N is even, then

$$\text{Median} = \left[\frac{N}{2} \text{th term} + \left(\frac{N}{2} + 1\right) \text{th term}\right] \Big/ 2$$

Basic Statistics Problems And Solutions

Kelvin Lancaster

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Statistics: Problems And Solution (Second Edition) Eryl E Bassett,J Mike Bremner,Byron Jones,Byron J T Morgan,P M North,Ian T Jolliffe,2000-06-27 Originally published in 1986 this book consists of 100 problems in probability and statistics together with solutions and most importantly extensive notes on the solutions The level of sophistication of the problems is similar to that encountered in many introductory courses in probability and statistics At this level straightforward solutions to the problems are of limited value unless they contain informed discussion of the choice of technique used and possible alternatives The solutions in the book are therefore elaborated with extensive notes which add value to the solutions themselves The notes enable the reader to discover relationships between various statistical techniques and provide the confidence needed to tackle new problems   Challenging Mathematical Problems with Elementary Solutions A. M. Yaglom,I. M. Yaglom,2013-04-26 Volume I of a two part series this book features a broad spectrum of 100 challenging problems related to probability theory and combinatorial analysis Most can be solved with elementary mathematics Complete solutions   **Challenging Mathematical Problems with Elementary Solutions** ?. ? ?????,Isaak Moiseevich I?Aglom,Basil Gordon,1987-01-01 Volume II of a two part series this book features 74 problems from various branches of mathematics Topics include points and lines topology convex polygons theory of primes and other subjects Complete solutions   **Basic Statistics with R** Stephen C. Loftus,2021-02-20 Basic Statistics with R Reaching Decisions with Data provides an understanding of the processes at work in using data for results Sections cover data collection and discuss exploratory analyses including visual graphs numerical summaries and relationships between variables basic probability and statistical inference including hypothesis testing and confidence intervals All topics are taught using real data drawn from various fields including economics biology political science and sports Using this wide variety of motivating examples allows students to directly connect and make statistics essential to their field of interest rather than seeing it as a separate and ancillary knowledge area In addition to introducing students to statistical topics using real data the book provides a gentle introduction to coding having the students use the statistical language and software R Students learn to load data calculate summary statistics create graphs and do statistical inference using R with either Windows or Macintosh machines Features real data to give students an engaging practice to connect with their areas of interest Evolves from basic problems that can be worked by hand to the elementary use of opensource R software Offers a direct clear approach highlighted by useful visuals and examples   **Dictionary/outline of Basic Statistics** John E. Freund,Frank Jefferson Williams,1991-01-01 Over 1 000 clear concise definitions of statistical terms with explanations Also formulas covering grouped and ungrouped data finite populations probability other topics   Solution Manual for Partial Differential Equations for Scientists and Engineers Stanley J. Farlow,2020-07-15 Originally published by John Wiley and Sons in 1983 Partial Differential Equations for Scientists and Engineers was reprinted by Dover in 1993 Written for advanced undergraduates in mathematics the widely used and

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