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## Statistics for Experimenters: Design, Innovation, and Discovery, 2nd Edition

By Box, George E. P.; Hunter, J. Stuart; Hunter, William G.

Wiley-Interscience, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface to the Second Edition. Chapter 1. Catalizing the Generation of Knowledge. 1.1. The Learning Process. 1.2. Important Considerations. 1.3. The Experimenter's Problem and Statistical Methods. 1.4. A Typical Investigation. 1.5. How to Use Statistical Techniques. References and Further Reading. Chapter 2. Basics: Probability, Parameters and Statistics. 2.1. Experimental Error. 2.2. Distributions. 2.3. Statistics and Parameters. 2.4. Measures of Location and Spread. 2.5. The Normal Distribution. 2.6. Normal Probability Plots. 2.7. Randomness and Random Variables. 2.8. Covariance and Correlation as Measures of Linear Dependence. 2.9. Student's t Distribution. 2.10. Estimates of Parameters. 2.11. Random Sampling from a Normal Population. 2.12. The Chi-Square and F Distributions. 2.13. The Binomial Distribution. 2.14. The Poisson Distribution. Appendix 2A. Mean and Variance of Linear Combinations of Observations. References and Further Reading. Chapter 3. Comparing Two Entities: Relevant Reference Distributions, Tests and Confidence Intervals. 3.1. Relevant Reference Sets and Distributions. 3.2. Randomized Paired Comparison Design: Boys' Shoes Example. 3.3. Blocking and Randomization. 3.4. Reprise: Comparison, Replication, Randomization, and Blocking in Simple Experiments. 3.5. More on Significance Tests. 3.6. Inferences About Data that are Discrete: Binomial Distribution. 3.7. Inferences about Frequencies (Counts Per Unit): The Poisson Distribution. 3.8.

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