

Chapter 2 Simple Comparative Experiments Solutions

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Chapter 2 Simple Comparative Experiments

Design of Engineering Experiments Chapter 2 - Some Basic Statistical Concepts Describing sample data Random samples Sample mean, variance, standard deviation Populations versus samples Population mean, variance, standard deviation Estimating parameters Simple comparative experiments The hypothesis testing framework

Chapter 2: Simple Comparative Experiments

(PDF) Chapter 2 Simple Comparative Experiments | Taylan Tan - Academia.edu Solutions 2-1 The breaking strength of a fiber is required to be at least 150 psi. Past experience has indicated that the standard deviation of breaking strength is $\sigma = 3$ psi. A random sample of four specimens is tested.

(PDF) Chapter 2 Simple Comparative Experiments | Taylan ...

CHAPTER 2 Simple Comparative Experiments CHAPTER OUTLINE. 2.1 INTRODUCTION; 2.2 BASIC STATISTICAL CONCEPTS; 2.3 SAMPLING AND SAMPLING DISTRIBUTIONS; 2.4 INFERENCES ABOUT THE DIFFERENCES IN MEANS, RANDOMIZED DESIGNS. 2.4.1 Hypothesis Testing; 2.4.2 Confidence Intervals; 2.4.3 Choice of Sample Size; 2.4.4 The Case Where $\sigma_1 \neq \sigma_2$; 2.4.5 The Case Where σ_1 and σ_2 Are Known; 2.4.6 Comparing a Single Mean to a Specified Value; 2.4.7 Summary

CHAPTER 2: Simple Comparative Experiments - Design and ...

(PDF) Chapter 2 Simple Comparative Experiments | ... - Academia.edu Solutions 2-2 The viscosity of a liquid detergent is supposed to average 800 centistokes at 25°C. A random sample of 16 batches of detergent is collected, and the average viscosity is 812. Suppose we know that the standard deviation of viscosity is σ

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Chapter 2: Simple Comparative Experiments (SCE) • Simple comparative experiments: experiments that compare two conditions (treatments) - The

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hypothesis testing framework – The two-sample t-test – Checking assumptions, validity • Homework: – P2-1, P2-5, and P2-6 due Sunday 7/3/2010 – P2-11 and P2-17 due Sunday 14/3/2010

Chapter 2: Simple Comparative Experiments (SCE)

2-1 Chapter 2 Simple Comparative Experiments Solutions 2-1 The breaking strength of a fiber is required to be at least 150 psi. Past experience has indicated that the standard deviation of breaking strength is $\sigma = 3$ psi. A random sample of four specimens is tested. The results are $y_1=145$, $y_2=153$, $y_3=150$ and $y_4=147$.

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Simple Comparative Experiments Anderson and Whitcomb Chapter 2 Overview • F- Test • Least significant difference (LSD) • Blocking out known sources of variation The F-Test • Compares the variance among treatment means (signal) to the variance between individuals within treatments (noise) • • K is the number of treatments • These formulas are valid when the sample sizes are the same for all treatments

Anderson Chapter 2 - Simple Comparative Experiments ...

Solutions from Montgomery, D. C. (2001) Design and Analysis of Experiments, Wiley, NY 2-1 Chapter 2 Simple Comparative Experiments Solutions 2-1 The breaking strength of a fiber is required to be at least 150 psi. Past experience has indicated that the standard deviation of breaking strength is $V = 3$ psi.

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Statistics 514: Simple Comparative Experiments Fall 2015 Power/Sample Size Calculations • Can form Operating Characteristic Curve (Power curve) for different levels of α , δ/σ and n – If σ known, use Normal distribution in calculations – If σ to be estimated, use non-central t (or table) • Assume σ is known and $n_1 = n_2 = n$ $H_0: Y_1 - Y_2 \sim N(0, 2\sigma^2/n)$ $H_1: Y_1 - Y_2 \sim N(\delta, \dots)$

Lecture 2: Simple Comparative Experiments

Statistics 514: Basis Concepts and Comparative Experiments Example 2: $T = (Y_2 - Y_1) - 0 \text{ Spool} \sqrt{1/n_1 + 1/n_2} \sim H_0 t(n_1 + n_2 - 2)$; $T_{obs} = 2.22$ • Decision Rules – Given significance level α , there are two approaches: – Compare observed test statistic with critical value – Compute the P-value of observed test statistic ...

Lecture 2: Basic Concepts and Simple Comparative Experiments

2-1 Chapter 2 . Simple Comparative Experiments . Solutions . 2.1. Computer output for a random sample of data is shown below. Some of the quantities are missing. Compute the values of the missing quantities. Variable N Mean SE Mean Std. Dev. Variance Minimum Maximum Y. 9. 19.96? 3.12? 15.94. 27.16. SE Mean = 1.04 Variance = 9.73 . 2.2.

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2Simple Comparative Experiments Section 2.2 Basic Statistical Concepts Section 2.4.1 Hypothesis Testing Section 2.4.3 Choice of Sample Size Section 2.5.1 The Paired Comparison Problem Section 2.5.2 Advantages of the ... - Selection from Design and Analysis of Experiments by Douglas Montgomery: A Supplement for Using JMP [Book]

Chapter 2 Simple Comparative Experiments - Design and ...

Unit 2: Simple Comparative Experiments. Comparative Experiments and Basic Statistical Concepts 10:44. The Hypothesis Testing Framework 14:02.

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Pooled t-test and Two-sample t-test 12:28. ... So as you'll recall, this example from chapter 2 where we're talking about the fluorescence of nerve endings. The experiment was conducted using 12 mice and ...

Florescence Data Example - Unit 2: Simple Comparative ...

View Notes - Chapter 2 from UECM 2283 at Tunku Abdul Rahman University. UECM 2283 Design and Analysis of Experiment .Chapter 2: Simple Comparative Experiments We consider experiments to compare two

Chapter 2 - UECM 2283 Design and Analysis of Experiment ...

View full document. Solutions from Montgomery, D. C. (2004) Design and Analysis of Experiments , Wiley, NY 2-1 Chapter 2 Simple Comparative Experiments Solutions 2-2 The viscosity of a liquid detergent is supposed to average 800 centistokes at 25 ° C. A random sample of 16 batches of detergent is collected, and the average viscosity is 812.

Chapter 2 - Solutions from Montgomery D C(2004 Design and ...

Unit 2: Simple Comparative Experiments. Comparative Experiments and Basic Statistical Concepts 10:44. ... But as we go through this material from from chapter 2 or module 2 of the course, we're going to look at a couple of variations of this two-sample t-test procedure. Here's a picture that tries to describe or were illustrate visually, the ...

The Hypothesis Testing Framework - Unit 2: Simple ...

View lec2-concepts.pdf from STAT 514 at Purdue University. Statistics 514: Basis Concepts and Comparative Experiments Lecture 2: Basic Concepts and Simple Comparative Experiments Montgomery: Chapter

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