

## 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 | PDF - 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  $\sigma$

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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  $y_1 = 145$ ,  $y_2$

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

#### Chapter 2 Simple Comparative Experiments Solutions

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 ...

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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Statistics 514: Basis Concepts and Comparative Experiments Example 2:  $T = (\bar{Y}_2 - \bar{Y}_1) - 0$  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  $\alpha$ , 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

Lecture 2 Basic Concepts and Simple Comparative Experiments Montgomery: Chapter 2 Jan, 2005 ... Design and Analysis of Experiments Dr. Zhu Purdue University Sping 2005 ... Details refer to Chapter 2, Stat511, etc. In testing hypotheses, we usually control

#### Montgomery: Chapter 2 Basic Concepts and Simple ...

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  $\sigma_1 = \sigma_2$  and  $\sigma_2$  Are Known; 2.4.6 Comparing a Single Mean to a Specified Value; 2.4.7 Summary

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

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.

#### Chapter 2 Simple Comparative Experiments Solutions

Chapter 2 Simple Comparative Experiments - Design and Analysis of Experiments by Douglas Montgomery: A Supplement for Using JMP [Book] 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 ....

#### Chapter 2 Simple Comparative Experiments - Design and ...

Statistics 514: Basis Concepts and Comparative Experiments Example 2:  $T = (\bar{Y}_2 - \bar{Y}_1) - 0$  Spool  $q \sqrt{1/n_1 + 1/n_2} \sim H_0 t(n_1 + n_2 - 2)$ ;  $T_{obs} = 2.22$  • Decision Rules – Given significance level  $\alpha$ , 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 ...

Chapter 2 Design & Analysis of Experiments 10E 2020 Montgomery 2 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 – The two-sample t-test – Checking assumptions, validity

#### ch02-2.pdf - Chapter 2 Design and Analysis of Experiments ...

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