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. 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.	Sum
Y	16	?	0.159	?	399.851

Mean = 24.991   Std. Dev. = 0.636

2.3. Suppose that we are testing $H_0: \mu = \mu_0$ versus $H_1: \mu \neq \mu_0$. Calculate the P-value for the following observed values of the test statistic:

(a) $Z_0 = 2.25$ P-value = 0.02445

(b) $Z_0 = 1.55$ P-value = 0.12114

(c) $Z_0 = 2.10$ P-value = 0.03573

(d) $Z_0 = 1.95$ P-value = 0.05118

(e) $Z_0 = -0.10$ P-value = 0.92034

2.4. Suppose that we are testing $H_0: \mu = \mu_0$ versus $H_1: \mu > \mu_0$. Calculate the P-value for the following observed values of the test statistic:

(a) $Z_0 = 2.45$ P-value = 0.00714

(b) $Z_0 = -1.53$ P-value = 0.93699

(c) $Z_0 = 2.15$ P-value = 0.01578

(d) $Z_0 = 1.95$ P-value = 0.02559

(e) $Z_0 = -0.25$ P-value = 0.59871

Design And Analysis Of Experiments Solutions 8th

Douglas C. Montgomery

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MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee. Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... Top GIS questions and answers Let's start asking GIS related questions and get simple focused answers. · What is the digitizing process? · How are vectors connected to other lines? · Can you ... GIS Quiz Questions Flashcards Study with Quizlet and memorize flashcards containing terms like GIS software is only one of the components of a GIS. True False, Which of the following ... GIS Quiz | 74 plays GIS Quiz quiz for Professional Development. Find other quizzes for Computers and more on Quizizz for free! 100+ GIS Multiple Choice Questions (MCQ) with Answers Jul 1, 2021 — GIS MCQs - 100+ Questions & Answers with Hint for Students & Professionals Preparing for Engineering Exams & Interview Preparation. GIS MCQ Quiz Questions And Answers Mar 31, 2023 — If you're looking for an important comprehensive set of questions and answers related to GIS, you're at the right place. Check out this GIS ... Quiz & Worksheet - Geographic Information Systems This quiz and worksheet combination will present you with opportunities to identify different terminology and aspects of these types of systems. Quiz & ... GIS (Geographic Information System) - Quiz & Test Mar 29, 2022 — This is an MCQ-based quiz on GIS (Geographic Information System). This includes Complex values, Positional values, Graphic values, Decimal ... 15 Important Questions And Answers Of Geographic ... 1. What is a Geographic Information system? · 2. What is meant by spatial data or Geographic data? · 3. Define Point Data. · 3. How to Define Line ... Test your basic knowledge of GIS: Geographic Information ... Use this BasicVersity online quiz to test your knowledge of GIS: Geographic Information Systems. ... The 3 wrong answers for each question are randomly chosen ... Official Practice Exam 1 - Web.pdf At what stage of a GIS project would you perform project monitoring? A ... Practice Exam 1 Answer Key. 1. C. 2. C. 3. C. 4. BD. 5. C. 6. C. 7. BD. 8. C. 9. B. 10.