

Fundamentals of Experimental Design

What is measured during a controlled experiment?

Why?

Working in the science lab can be a lot of fun. Mixing random chemicals and burning stuff just to see what happens can be entertaining (and possibly dangerous), but it doesn't lead to anything helpful to the scientific community. In order to be helpful to the community, a researcher's work in the lab must be systematic. A researcher usually asks a question and then designs an experiment to investigate that question. In this activity you will identify different types of variables that will help you design controlled experiments.

Model 1 – Alka-Seltzer® and Vinegar

Before		Mix		After	
Alka-Seltzer					
100.0 mL Vinegar				100.0 mL solution	
84 kPa Room Pressure	23.5 °C Temperature	84 kPa Room Pressure	Changing °C Temperature	84 kPa Room Pressure	22.6 °C Temperature

1. Briefly describe the reaction illustrated in Model 1 in one or more complete sentences.
2. Did the room pressure change as the reaction occurred? If yes, was there an increase or decrease?
3. What two pieces of evidence observed during the "mix" phase of the reaction suggest that a chemical change is taking place?
4. Did the solution temperature increase or decrease during the reaction?

Model 2 – Results of Alka-Seltzer® Experiment

	Number of Alka-Seltzer Tablets	Volume of Vinegar (mL)	Room Pressure (kPa)	Initial Temp (°C) (Vinegar Solution)	Final Temp. (°C) (Final Mixture)
Trial 1	1	100.0	84	23.5	22.6
Trial 2	2	100.0	84	23.5	21.5
Trial 3	3	100.0	84	23.5	20.4
Trial 4	4	100.0	84	23.5	19.2
Trial 5	5	100.0	84	23.5	18.1

5. Which trial in the Model 2 data table corresponds to the reaction illustrated in Model 1?
6. Consider the five trials that produced the data in Model 2.
 - a. What variable was purposefully changed in the experiment?
 - b. What variable changed as a result of changing the variable listed in part a?

Fundamentals Of Experimental Design Answers

Rae R. Newton, Kjell Erik Rudestam



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Design of Experiments for Reliability Achievement Steven E. Rigdon, Rong Pan, Douglas C. Montgomery, Laura Freeman, 2022-05-24 ENABLES READERS TO UNDERSTAND THE METHODS OF EXPERIMENTAL DESIGN TO SUCCESSFULLY CONDUCT LIFE TESTING TO IMPROVE PRODUCT RELIABILITY This book illustrates how experimental design and life testing can be used to understand product reliability in order to enable reliability improvements The book is divided into four sections The first section focuses on statistical distributions and methods for modeling reliability data The second section provides an overview of design of experiments including response surface methodology and optimal designs The third section describes regression models for reliability analysis focused on lifetime data This section provides the methods for how data collected in a designed experiment can be properly analyzed The final section of the book pulls together all of the prior sections with customized experiments that are uniquely suited for reliability testing Throughout the text there is a focus on reliability applications and methods It addresses both optimal and robust design with censored data To aid in reader comprehension examples and case studies are included throughout the text to illustrate the key factors in designing experiments and emphasize how experiments involving life testing are inherently different The book provides numerous state of the art exercises and solutions to help readers better understand the real world applications of experimental design and reliability The authors utilize R and JMP software throughout as appropriate and a supplemental website contains the related data sets Written by internationally known experts in the fields of experimental design methodology and reliability data analysis sample topics covered in the book include An introduction to reliability lifetime distributions censoring and inference for parameter of lifetime distributions Design of experiments optimal design and robust design Lifetime regression parametric regression models and the Cox Proportional Hazard Model Design strategies for reliability achievement Accelerated testing models for acceleration and design of experiments for accelerated testing The text features an accessible approach to reliability for readers with various levels of technical expertise This book is a key reference for statistical researchers reliability engineers quality engineers and professionals in applied statistics and engineering It is a comprehensive textbook for upper undergraduate and graduate level courses in statistics and engineering

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