

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

William J. Diamond



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Practical Experiment Designs William J. Diamond, 2001-02-05 Most books cover the subject from a statistical or theoretical point of view Ideal for working engineers this book uses real world examples and boils statistical theory and analysis down to its simplest form Features new and updated material including cases and a larger focus on multivariate analysis Uses simple analysis tools for practical implementation on the job Targets experiment planning as the groundwork for quality experiments **Microarray Technology in Practice** Steve Russell, Lisa A. Meadows, Roslin R.

Russell, 2008-11-21 Using chips composed of thousands of spots each with the capability of holding DNA molecules corresponding to a given gene DNA microarray technology has enabled researchers to measure simultaneously gene expression across the genome As with other large scale genomics approaches microarray technologies are broadly applicable across disciplines of life and biomedical sciences but remain daunting to many researchers This guide is designed to demystify the technology and inform more biologists about this critically important experimental technique Cohesive overview of the technology and available platforms followed by detailed discussion of experimental design and analysis of microarray experiments Up to date description of normalization methods and current methods for sample amplification and labeling Deep focus on oligonucleotide design printing labeling and hybridization data acquisition normalization and meta analysis Additional uses of microarray technology such as ChIP chromatin immunoprecipitation with hybridization to DNA arrays microarray based comparative genomic hybridization CGH and cell and tissue arrays *ACT For Dummies* Lisa Zimmer Hatch, Scott A. Hatch, 2015-03-30 The fast and easy way to score higher on the ACT Does the thought of preparing for the ACT give you anxiety Fear not This new edition of ACT For Dummies gives you a competitive edge by fully preparing you for the ACT exam with subject reviews practice opportunities three full length practice tests and coverage of the optional writing test Written in the accessible and friendly For Dummies tone this hands on guide helps you assess where you need more study help gets you up to speed on the questions you can expect to encounter on the actual ACT exam and will have you practicing your way to test taking perfection before exam day The ACT is a standardized test used by college admissions boards to measure high school achievement Designed to gauge a high school student's preparedness for college in the fields of English mathematics reading and science reasoning the ACT is a nationally recognized college entrance exam that is accepted by more than 90% of four year colleges and universities in the United States If you're a high school student preparing for this all important exam ACT For Dummies 6th edition gives you everything you need to raise your chances of scoring higher So what are you waiting for Sharpen a pencil and get started Tips to maximize your score on the ACT Strategies to stay focused on test day and manage your time wisely To take your skills to the next level with practice problems and exercises How you measure up with 3 full length practice tests Whether you're preparing for the ACT for the time or are retaking the exam to improve your score ACT For Dummies 6th edition gives you everything you need to score

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Hatch, 2015-05-08 The fast and easy way to score higher on the ACT Does the thought of preparing for the ACT give you anxiety Fear not This 6th edition of ACT For Dummies with online practice tests gives you a competitive edge by fully preparing you for the ACT exam with subject reviews practice opportunities online full length practice tests and coverage of the optional writing test Written in the accessible and friendly For Dummies tone this hands on guide helps you assess where you need more help gets you up to speed on the questions you can expect to encounter on the actual ACT exam and will have you studying your way to test taking perfection before exam day The ACT is a standardized test used by college admissions boards to measure high school achievement Designed to assess a high school student's preparedness for college in the fields of English mathematics reading and science reasoning the ACT is a nationally recognized college entrance exam that is accepted by more than 90% of four year colleges and universities in the United States If you're a high school student preparing for this all important exam ACT For Dummies 6th edition with online practice tests gives you everything you need to raise your chances of scoring higher So what are you waiting for Get started Go online for one year of access to 6 ACT practice tests to sharpen your skills Tips to maximize your score on the ACT Strategies to stay focused on test day and manage your time wisely Practice problems and exercises to take your skills to the next level Tools to gauge how you measure up Whether you're preparing for the ACT for the time or are retaking the exam to improve your score ACT For Dummies 6th edition with online practice tests gives you everything you need to score higher **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

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Experimental Abnormal Psychology B. Zeigarnik, 2012-12-06 In recent years psychology has considerably expanded and enriched its relations with medical practice first and foremost with psychiatry This orientation toward experimental abnormal psychology has been closely tied to the practical tasks of psychiatry differential diagnosis establishment of the structure and extent of impairment and the dynamics of mental disorders as affected by treatment etc Experimental abnormal psychology has been no less important for the theoretical problems of psychology and psychiatry The study of pathological changes in mental processes helps in dealing with questions about the structure and formation of mental activity The research findings of abnormal psychology also have important implications for overcoming biologizing tendencies in the interpretation of human psychology The present book does not try to provide an exhaustive exposition of all divisions of abnormal psychology It introduces the reader only to those problems which at the present time seem to be best worked out experimentally the breakdown of intellectual capacity thought disorders the methodology of setting up an experiment in the psychiatric clinic and certain questions relating to motivational disturbances and psychological growth and decay Some rewritten sections from the author's earlier book *The Pathology of Thinking* have been included

v vi FOREWORD The present volume is intended for psychology students for psychologists and for physicians working in psychiatry

Analysis of Growth Factor Signaling in Embryos Malcolm Whitman, Amy Sater, 2006-08-15 Developmental biologists have been driven to investigate growth factor signaling in embryos in order to understand the regulatory mechanisms underlying a given developmental process Thus it is critical to explore the technical methods and experimental designs for growth factor signaling in embryos Focusing on specific pathways or pathway comp

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Chemometrics S.N. Deming, Y. Michotte, D.L. Massart, L. Kaufman, B.G.M. Vandeginste, 1988-02-01 Most chemists whether they are biochemists organic analytical pharmaceutical or clinical chemists and many pharmacists and biologists need to perform chemical analysis Consequently they are not only confronted with carrying out the actual analysis but also with problems such as method selection experimental design optimization calibration data acquisition and handling and statistics in order to obtain maximum relevant chemical information In other words they are confronted with chemometrics This book on chemometrics written by some of the leaders in the field aims to provide a thorough up to date introduction to this subject The reader is given the opportunity to acquaint himself with the tools used in this discipline and the way in which they are applied Some practical examples are given and the reader is shown how to select the appropriate tools in a given situation As such the book provides the means to approach and solve analytical problems strategically and systematically without the need for the reader to become a fully fledged chemometrician The authors aim was to write a tutorial book which would be useful to readers at every level in this field

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