

Name _____

Introduction to Scientific Method & Experimental Design

OBJECTIVES: This is your intro to our Experimental Design Unit. By the end of this unit you should be able to:

- *Apply the Scientific Method to a given situation in real life.*
- *Design a Hypothesis that is in the form of a "If...Then..." statement that is TESTABLE!*
- *Design an experiment with all necessary components, including an independent variable, dependent variable(s), controlled variables, control group, experimental group, and procedures.*
- *Collect data from an experiment and analyze it to determine correctness of a hypothesis.*
- *Evaluate the strength of an experiment based on its design.*

PART I: What is the *Scientific Method*?

Scientific Method- It is a 6 part, step by step approach to solving a problem/answering questions.

- 1) **State the Problem or Question-** A question is asked after making observations about something.
- 2) **Gather Information** (research)- Information about the problem is collected.
- 3) **Form a hypothesis-** Create a possible explanation or solution to the problem. Must be an "If...Then..." statement. Your hypothesis should be very clear and exact. Can only be right/wrong.
- 4) **Design Experiment-** Design an experiment with a **control group** and an **experimental group**.
- 5) **Do Experiment and Collect Data** Conduct an experiment with a **control group** and an **experimental group**.
- 6) **State a conclusion-** Determine whether or not a hypothesis is correct based on data

PRACTICE I: Below, fill in the rest of the steps of the following example of the scientific method using the info about each step from above...you can make up the answers because this is only hypothetical!

- 1) **State the Problem or Question-** Does listening to _____'s music help improve test scores
- 2) **Gather Information-** (What info would you gather and how?)
- 3) **Form a hypothesis-** (What is your hypothesis?)
- 4) **Design Experiment-** (Actually write out how you perform an experiment)
- 5) **Do Experiment and Collect Data-** (What data would you collect)

Fundamentals Of Experimental Design Worksheet Answers

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Fundamentals Of Experimental Design Worksheet Answers:

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

Fundamentals of Design of Experiments for Automotive Engineering Volume I Young J. Chiang, Amy L. Chiang, 2023-11-28 In a world where innovation and sustainability are paramount Fundamentals of Design of Experiments for Automotive Engineering Volume I serves as a definitive guide to harnessing the power of statistical thinking in product development As first of four volumes in SAE International's DOE for Product Reliability Growth series this book presents a practical application focused approach by emphasizing DOE as a dynamic tool for automotive engineers It showcases real world examples demonstrating how process improvements and system optimizations can significantly enhance product reliability The author Yung Chiang leverages extensive product development expertise to present a comprehensive process that ensures

product performance and reliability throughout its entire lifecycle Whether individuals are involved in research design testing manufacturing or marketing this essential reference equips them with the skills needed to excel in their respective roles This book explores the potential of Reliability and Sustainability with DOE featuring the following topics Fundamental prerequisites for deploying DOE Product reliability processes measurement uncertainty failure analysis and design for reliability Full factorial design 2K A system identification tool for relating objectives to factors and understanding main and interactive effects Fractional factorial design 2RK P Ideal for identifying main effects and 2 factor interactions General fractional factorial design LK P Systematically identification of significant inputs and analysis of nonlinear behaviors Composite designs as response surface methods Resolving interactions and optimizing decisions with limited factors Adapting to practical challenges with short DOE Leveraging optimization schemes like D optimality and A optimality for optimal results Readers are encouraged not to allow product failures to hinder progress but to embrace the statistical thinking embedded in DOE This book can illuminate the path to designing products that stand the test of time resulting in satisfied customers and thriving businesses ISBN 9781468606027 ISBN 9781468606034 ISBN 9781468606041 DOI 10 4271 9781468606034

Response Surface Methodology Raymond H. Myers, Douglas C. Montgomery, 1995-09-12 The primary objective of response surface methodology is to aid the statistician and other users of statistics in applying response surface procedures to appropriate problems in many technical fields Although methods are emphasized in the book a certain amount of theory is presented so that a reader with sufficient background in mathematics especially in the algebra of matrices can obtain an exposure to the theoretical development While response surface techniques are widely used it seems that a need exists for an exposition which contains a considerable amount of the basic material under a single cover At the time it is felt this book may create a continued awareness of the basic techniques among the potential users

Developing Clinical Competence Marie Morreale, 2024-06-01 A newly updated user friendly resource for occupational therapy assistant students and new practitioners Developing Clinical Competence A Workbook for the OTA Second Edition assists readers in developing practical problem solving and real life skills essential for fieldwork and clinical practice Maintaining the easy to read workbook format from the First Edition this book is filled with learning activities worksheets and detailed answer explanations as well as expanded chapter content and revised references Marie J Morreale breaks down competencies into step by step units to allow for independent study With multiple choice matching true false and fill in the blanks questions case studies vignettes and experiential activities this Second Edition presents helpful tips in their most useful format Guiding the reader through occupational therapy clinical decision making professional conduct and meeting standards of care for various practice areas each chapter is fully independent and can be read in the order most conducive to the reader's individual learning needs This text can help readers measure attainment of knowledge and skills when preparing for fieldwork the national certification exam or transitioning to entry level practice New for the Second Edition Fundamental

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Random Phenomena
 Babatunde A. Ogunnaike, 2011-05-20 Many of the problems that engineers face involve randomly varying phenomena of one sort or another However if characterized properly even such randomness and the resulting uncertainty are subject to rigorous mathematical analysis Taking into account the uniquely multidisciplinary demands of 21st century science and engineering *Random Phenomena Fundamentals of Probability and Statistics for Engineers* provides students with a working knowledge of how to solve engineering problems that involve randomly varying phenomena Basing his approach on the principle of theoretical foundations before application Dr Ogunnaike presents a classroom tested course of study that explains how to master and use probability and statistics appropriately to deal with uncertainty in standard problems and those that are new and unfamiliar Giving students the tools and confidence to formulate practical solutions to problems this book offers many useful features including Unique case studies to illustrate the fundamentals and applications of probability and foster understanding of the random variable and its distribution Examples of development selection and analysis of probability models for specific random variables Presentation of core concepts and ideas behind statistics and design of experiments Selected special topics including reliability and life testing quality assurance and control and multivariate analysis As classic scientific boundaries continue to be restructured the use of engineering is spilling over into more non traditional areas ranging from molecular biology to finance This book emphasizes fundamentals and a first principles approach to deal with this evolution It illustrates theory with practical examples and case studies equipping readers to deal with a wide range of problems beyond those in the book About the Author Professor Ogunnaike is Interim Dean of Engineering at the University of Delaware He is the recipient of the 2008 American Automatic Control Council's Control Engineering Practice Award the ISA's Donald P Eckman Education Award the Slocomb Excellence in Teaching Award and was elected into the US National Academy of Engineering in 2012

Social Work Research Skills Workbook Jacqueline Corcoran, Mary Secret, 2012-09-06 With an abundance of examples and exercises this practically oriented workbook presents

a step by step approach to help social work students develop and implement their research projects in human services organizations **Science Scope** ,1998 **Chemical Engineering Education** ,2003 **Fundamentals of Experimental Design** J. L. Myers,1977 Fundamentals of Experimental Design Jerome L. Myers,1972 **Resources in Education** ,1984 **Sequential Simplex Optimization** Frederick H. Walters,1991 The only book on the market devoted to sequential simplex optimization This book presents an easy to learn effective optimization technique that can be applied immediately to many problems in the real world The sequential simplex is an evolutionary operation EVOP technique that uses experimental results it does not require a mathematical model The authors present their subject with a level of detail and clarity that is refreshingly welcome in a technical text The basics are presented first followed by a detailed discussion of the fine points needed to get the most out of this optimization technique Worksheets are provided and their use is illustrated with step by step worked examples This makes the logic and calculations of the simplex algorithms easy to understand and follow The text also provides more than 200 figures and over 500 references to sequential simplex applications which allows rapid access to specific examples of the use of the technique in a wide range of applications Sequential Simplex Optimization A Technique for Improving Quality and Productivity in Research Development and Manufacturing is essential for any student or professional who desires to learn this innovative technique quickly and easily **Proceedings** American Society for Engineering Education. Conference,1989 Proceedings American Society for Engineering Education,1989 *The Software Encyclopedia 2001* ,2001 *Mechanical Design* Peter R. N. Childs,1998-10-27 With this volume Peter Childs introduces mechanical design from the very basic principles and components before moving on to develop skills to a practical level NASA SP. ,1970 Nonpoint Source Watershed Workshop United States. Environmental Protection Agency. Office of Research and Development,1991 **Experimental Design** S.N. Deming,S.L. Morgan,1987-01-01 Now available in a paperback edition is a book which has been described as an exceptionally lucid easy to read presentation would be an excellent addition to the collection of every analytical chemist I recommend it with great enthusiasm Analytical Chemistry Unlike most current textbooks it approaches experimental design from the point of view of the experimenter rather than that of the statistician As the reviewer in Analytical Chemistry went on to say Deming and Morgan should be given high praise for bringing the principles of experimental design to the level of the practicing analytical chemist The book first introduces the reader to the fundamentals of experimental design Systems theory response surface concepts and basic statistics serve as a basis for the further development of matrix least squares and hypothesis testing The effects of different experimental designs and different models on the variance covariance matrix and on the analysis of variance ANOVA are extensively discussed Applications and advanced topics such as confidence bands rotatability and confounding complete the text Numerous worked examples are presented The clear and practical approach adopted by the authors makes the book applicable to a wide audience It will appeal particularly to those with a practical need scientists engineers managers research workers who have

completed their formal education but who still need to know efficient ways of carrying out experiments It will also be an ideal text for advanced undergraduate and graduate students following courses in chemometrics data acquisition and treatment and design of experiments Aeronautical Engineering ,1970 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

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