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*This book offers
a step-by-step
guide to the
experimental
planning
process and the
ensuing analysis
of normally
distributed data,
emphasizing the*

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*practical
considerations
governing the
design of an
experiment.*

*Data sets are
taken from real
experiments and
sample SAS
programs are
included with
each chapter.*

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Experimental design is an essential part of investigation and discovery in science; this book will serve as a modern and comprehensive reference to the subject.

The tools and

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*techniques used
in Design of
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*(DoE) have been
proven
successful in
meeting the
challenge of
continuous
improvement in
many
manufacturing*

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*organisations
over the last two
decades.*

*However
research has
shown that
application of
this powerful
technique in
many
companies is
limited due to a*

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*lack of statistical
knowledge
required for its
effective
implementation.
Although many
books have
been written on
this subject,
they are mainly
by statisticians,
for statisticians*

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*and not
appropriate for
engineers.
Design of
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Engineers and
Scientists
overcomes the
problem of
statistics by
taking a unique
approach using*

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*graphical tools.
The same
outcomes and
conclusions are
reached as
through using
statistical
methods and
readers will find
the concepts in
this book both
familiar and*

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easy to understand. This new edition includes a chapter on the role of DoE within Six Sigma methodology and also shows through the use of simple case studies its

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*importance in
the service
industry. It is
essential
reading for
engineers and
scientists from
all disciplines
tackling all kinds
of
manufacturing,
product and*

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*process quality
problems and
will be an ideal
resource for
students of this
topic. Written in
non-statistical
language, the
book is an
essential and
accessible text
for scientists*

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*and engineers
who want to
learn how to use
DoE Explains
why teaching
DoE techniques
in the
improvement
phase of Six
Sigma is an
important part
of problem*

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*solving
methodology
New edition
includes a full
chapter on DoE
for services as
well as case
studies
illustrating its
wider
application in
the service*

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*industry
The design of
experiments
holds a central
place in
statistics. The
aim of this book
is to present in a
readily
accessible form
certain
theoretical*

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results of this vast field. This is intended as a textbook for a one-semester or two-quarter course for undergraduate seniors or first-year graduate students, or as a supplementary

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resource. Basic knowledge of algebra, calculus and statistical theory is required to master the techniques presented in this book. To help the reader, basic statistical tools

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*that are needed
in the book are
given in a
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chapter.*

*Mathematical
results from
Modern Algebra
which are
needed for the
construction of
designs are also*

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given. Wherever possible the proofs of the theoretical results are provided.

With a growing number of scientists and engineers using JMP software for design of

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*experiments,
there is a need
for an example-
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scientists and
engineers,
undergraduate
and graduate
students will
benefit greatly
from this book.
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need to learn*

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*the theory, they
also need to
learn how to
implement this
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*software,
Rushing, Karl
and Wisnowski
demonstrate
how to design
and analyze
experiments for
improving the
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Pairs, Fit Model,
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*Montgomery's
textbook, and
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*Montgomery: A
Supplement for
Using JMP, users
will be able to fit
the design to
the problem,*

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*instead of fitting
the problem to
the design. This
book is part of
the SAS Press
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*Experiments,
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Biology*

*Experiments
Handbook of
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Unlike other books on
the modeling and

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analysis of experimental
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data, Design and
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Experiments: Classical
and Regression
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not only covers classical
experimental design
theory, it also explores
regression approaches.
Capitalizing on the
availability of cutting-
edge software, the
author uses both manual

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methods and SAS programs to carry out analyses. The book presents most of the different designs covered in a typical experimental design course. It discusses the requirements for good experimentation, the completely randomized design, the use of orthogonal contrast to test hypotheses, and the

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model adequacy check. With an emphasis on two-factor factorial experiments, the author analyzes repeated measures as well as fixed, random, and mixed effects models. He also describes designs with randomization restrictions, before delving into the special cases of the 2k and 3k

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factorial designs, including fractional replication and confounding. In addition, the book covers response surfaces, balanced incomplete block and hierarchical designs, ANOVA, ANCOVA, and MANOVA. Fortifying the theory and computations with practical exercises and

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supplemental material,
this distinctive text
provides a modern,
comprehensive
treatment of
experimental design and
analysis.

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language with relevant
examples, Statistical
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Design and Analysis of
Experiments and
Regression is a practical

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and illustrative guide to
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the design of
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analysis in the biological
and agricultural
sciences. The book
presents statistical ideas
in the context of
biological and
agricultural sciences to
which they are being
applied, drawing on
relevant examples from
the authors' experience.

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Taking a practical and intuitive approach, the book only uses mathematical formulae to formalize the methods where necessary and appropriate. The text features extended discussions of examples that include real data sets arising from research. The authors analyze data in detail to

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illustrate the use of basic formulae for simple examples while using the GenStat® statistical package for more complex examples. Each chapter offers instructions on how to obtain the example analyses in GenStat and R. By the time you reach the end of the book (and online material) you will have gained: A clear

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appreciation of the importance of a statistical approach to the design of your experiments, A sound understanding of the statistical methods used to analyse data obtained from designed experiments and of the regression approaches used to construct simple models to describe the observed response as a

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function of explanatory variables, Sufficient knowledge of how to use one or more statistical packages to analyse data using the approaches described, and most importantly, An appreciation of how to interpret the results of these statistical analyses in the context of the biological or agricultural science within which

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you are working. The book concludes with a guide to practical design and data analysis. It gives you the understanding to better interact with consultant statisticians and to identify statistical approaches to add value to your scientific research.

Emphasizes the strategy of experimentation, data

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analysis, and
the interpretation of
experimental results.

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examples using actual
engineering
and scientific studies.
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integral component of
experimentation from
the planning stage to the
presentation of
the conclusions. Deep
and concentrated

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designed experiments for product and process improvement, Experiments, Second Edition introduces some of the newest discoveries—and sheds further light on existing ones—on the design and analysis of experiments and their applications in system optimization, robustness, and treatment comparison.

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Maintaining the same easy-to-follow style as the previous edition while also including modern updates, this book continues to present a new and integrated system of experimental design and analysis that can be applied across various fields of research including engineering, medicine, and the

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physical sciences. The authors modernize accepted methodologies while refining many cutting-edge topics including robust parameter design, reliability improvement, analysis of non-normal data, analysis of experiments with complex aliasing, multilevel designs, minimum aberration

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designs, and orthogonal arrays. Along with a new chapter that focuses on regression analysis, the

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One-way and two-way ANOVA with random effects
Split-plot designs

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ANOVA treatment of factorial effects
Response surface modeling for related factors Drawing on examples from their combined years of working with industrial clients, the authors present many cutting-edge topics in a single, easily accessible source. Extensive case studies, including goals, data,

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designs, are also
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included, and the book's
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data sets can be found
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provide a succinct
outline of discussed
methods, and extensive
appendices direct
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Experiments, Second Edition is an excellent book for design of experiments courses at the upper-undergraduate and graduate levels. It is also a valuable resource for practicing engineers and statisticians.

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Introduction to
Experimental Design
An applied
introduction to
statistics for students
with no background
in the subject. The

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author places a strong emphasis on choosing sound design structures prior to a formal discussion of ANOVA, and then goes on to explore real data sets using a variety of graphs and numerical methods, before testing the

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assumptions behind
standard ANOVA
texts. Throughout
the book, the author
emphasises the
contextual
understanding and
interpretation of data
analysis rather than
stressing formal
deductive,
mathematical

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reasoning, while the more difficult algebraic discussions are contained in

optional sections.

Professionals in all areas □ business;

government;

the physical, life, and

social sciences;

engineering;

medicine, etc. □

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benefit from using
statistical
experimental design
to better understand
their worlds and then
use that
understanding
to improve the
products, processes,
and programs they
are responsible for.
This book aims to

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provide the practitioners of tomorrow with an memorable, easy to read, engaging guide to statistics and experimental design. This book uses examples, drawn from a variety of established texts, and embeds

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them in a business or scientific context, seasoned with a dash of humor, to

emphasize the issues and ideas that led to the experiment and the what-do-we-do-next? steps after the experiment.

Graphical data displays are

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emphasized as
means of discovery
and communication
and formulas are
minimized, with
a focus on
interpreting the
results that software
produce. The role of
subject-matter
knowledge, and
passion, is also

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illustrated.

The examples do not
require specialized
knowledge, and the
lessons they contain
are transferrable to
other contexts.

Fundamentals of
Statistical
Experimental Design
and
Analysis introduces

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the basic elements of an experimental design, and the basic concepts underlying statistical analyses.

Subsequent chapters address the following families of experimental designs: Completely Randomized designs, with single

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or multiple treatment
factors, quantitative
or qualitative
Randomized Block
designs Latin Square
designs Split-Unit
designs Repeated
Measures designs
Robust designs
Optimal designs
Written in an
accessible, student-

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friendly style, this book is suitable for a general audience and particularly for those professionals seeking to improve and apply their understanding of experimental design.

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of Time Series

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Experiments presents the elements of statistical time series analysis while also addressing recent developments in research design and causal modeling. A distinguishing feature of the book is its integration of

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design and analysis
of time series
experiments. Drawin
g examples from
criminology,
economics,
education,
pharmacology,
public policy,
program evaluation,
public health, and
psychology, Design

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and Analysis of
Time Series
Experiments is
addressed to
researchers and
graduate students in
a wide range of
behavioral,
biomedical and
social
sciences. Readers
learn not only how-

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to skills but, also the underlying rationales for the design features and the analytical methods.

ARIMA algebra, Box-Jenkins-Tiao models and model-building strategies, forecasting, and Box-Tiao impact models are developed in

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separate chapters.
The presentation of
themodels and
model-building
assumes only
exposure to an
introductory
statistics course,
with more difficult
mathematical
material relegated to
appendices. Separate

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chapters cover
threats to statistical
conclusion validity,
internal validity,
construct validity,
and external validity
with an emphasis on
how these threats
arise in time series
experiments. Design
structures for
controlling the

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threats are presented
and illustrated
through examples.

The chapters on
statistical conclusion
validity and internal
validity introduce
Bayesian methods,
counterfactual
causality and
synthetic control
group designs.

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Building on the earlier of the authors, Design and Analysis of Time Series Experiments includes more recent developments in modeling, and considers design issues in greater detail than any existing work.

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Additionally, the book appeals to those who want to conduct or interpret time series experiments, as well as to those interested in research designs for causal inference.

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of Experiments,

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revision of the text
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factorial designs
more quickly than

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that improve quality and efficiency in systems developed by engineers and managers. It includes new topics, examples, reorganization and greater emphasis on the use of the computer.

Why study the

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theory of experiment design? Although it can be useful to know about special designs for specific purposes, experience suggests that a particular design can rarely be used directly. It needs adaptation to accommodate the

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circumstances of the experiment.

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researchers across
the range of
experimental
disciplines, The
Theory of the
Design of
Experiments
presents the major
topics associated
with experiment
design, focusing on
the key concepts and

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the statistical structure of those concepts. The authors keep the level of mathematics elementary, for the most part, and downplay methods of data analysis. Their emphasis is firmly on design, but appendices offer self-

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contained reviews of algebra and some standard methods of analysis. From their development in association with agricultural field trials, through their adaptation to the physical sciences, industry, and medicine, the

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statistical aspects of
the design of
experiments have
become well refined.

In statistics courses
of study, however,
the design of
experiments very
often receives much
less emphasis than
methods of analysis.

The Theory of the

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Design of
Experiments fills
this potential gap in
the education of
practicing
statisticians,
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a modern and

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accessible approach
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of Experiments,

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Edition provides a

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theory, and practice

of designing

scientific

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comparative experiments and also details the intricacies that are often encountered throughout the design and analysis processes. With the addition of extensive numerical examples and expanded treatment of key

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concepts, this book further addresses the needs of practitioners and successfully provides a solid understanding of the relationship between the quality of experimental design and the validity of conclusions. This

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Second Edition continues to provide the theoretical basis of the principles of experimental design in conjunction with the statistical framework within which to apply the fundamental concepts. The difference between

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experimental studies and observational studies is addressed, along with a discussion of the various components of experimental design: the error-control design, the treatment design, and the observation design. A series of

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error-control designs
are presented based
on fundamental
design principles,
such as
randomization, local
control (blocking),
the Latin square
principle, the split-
unit principle, and
the notion of
factorial treatment

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structure. This book
also emphasizes the
practical aspects of
designing and

analyzing

experiments and

features: Increased
coverage of the

practical aspects of
designing and

analyzing

experiments,

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complete with the steps needed to plan and construct an experiment A case study that explores the various types of interaction between both treatment and blocking factors, and numerical and graphical techniques are provided to

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analyze and interpret
these interactions
Discussion of the
important

distinctions between
two types of
blocking factors and
their role in the
process of drawing
statistical inferences
from an experiment

A new chapter

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devoted entirely to repeated measures, highlighting its relationship to split-plot and split-block designs Numerical examples using SAS® to illustrate the analyses of data from various designs and to construct factorial designs that

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relate the results to
the theoretical
derivations Design
and Analysis of
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Volume 1, Second
Edition is an ideal
textbook for first-
year graduate
courses in
experimental design
and also serves as a

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practical, hands-on
reference for
statisticians and
researchers across a
wide array of subject
areas, including
biological sciences,
engineering,
medicine,
pharmacology,
psychology, and
business.

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This is a new edition
of Kleijnen's
advanced expository
book on statistical

methods for the

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of Simulation

Experiments

(DASE). Altogether,
this new edition has
approximately 50%
new material not in

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the original book.
More specifically,
the author has made
significant changes
to the book's
organization,
including placing the
chapter on Screening
Designs immediately
after the chapters on
Classic Designs, and
reversing the order

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of the chapters on
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Optimization and
Kriging

Metamodels. The latter two chapters reflect how active the research has been in these areas. The validation section has been moved into the

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chapter on Classic Assumptions versus Simulation Practice, and the chapter on Screening now has a section on selecting the number of replications in sequential bifurcation through Wald's sequential probability ratio

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test, as well as a section on sequential bifurcation for multiple types of simulation

responses. Whereas all references in the original edition were placed at the end of the book, in this edition references are placed at the end

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*with emphasis on
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many procedures are
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*This book describes
methods for
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*experiments that are
conducted using a
computer code, a
computer*

*experiment, and,
when possible, a
physical experiment.*

*Computer
experiments
continue to increase
in popularity as
surrogates for and*

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adjuncts to physical experiments. Since the publication of the first edition, there have been many methodological advances and software developments to implement these new methodologies. The

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*emphasized the
construction of
algorithms for
various data
analysis tasks
(design construction,
prediction,
sensitivity analysis,
calibration among*

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others), and the development of web-based repositories of designs for immediate application. While it is written at a level that is accessible to readers with Masters-level training in Statistics, the book is written in sufficient

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*detail to be useful
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discussed in the
book to aid
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special
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that arise in certain
fields of application
such as genetics,
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*agriculture,
medicine,
manufacturing,
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known and highly-
regarded
contributors have
written individual
chapters that have
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conducting
experiments.
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comparative
experiments,
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procedures, or they will
integrate the analysis for

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presumes only
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knowledge. This
prerequisite
knowledge is
summarised briefly

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in appendix B. Knowledge of differential and integral calculus is not necessary for the understanding of the text. Matrix notation is explained in Appendix C. As well as the correction of errors, the present edition differs from the first by the

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introduction of some new sections, such as that on testing the equality of two proportions (Section 3.4.4), and the inclusion of sequential tests. All new material is accompanied by descriptions of the relevant SPSS and CADEMO procedures.

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- when to use various designs
- how to analyze the results
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analysis and
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experiments while
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with applications
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trials and the modern topic of microarrays. The authors outline the following five types of designs that form the basis of most experimental structures:

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Randomized block designs
Factorial

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improving precision.
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addresses
experiments with
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treatment factors
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surface methods for
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experimental
conditions or
biotechnological
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emphasizes the estimation of effect sizes and the principled use of statistical arguments in the broader scientific context. It gradually transitions from classical analysis of variance to modern linear mixed models, and provides detailed

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aberrations that can
arise in practice.

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students, teachers
and researchers in
the fields of
experimental
biology and
biomedicine, the
book is largely self-
contained and starts
with the necessary
background on

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basic statistical concepts. The underlying ideas and necessary mathematics are gradually introduced in increasingly complex variants of a single example. Hasse diagrams serve as a powerful method for visualizing and

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designs and
deriving appropriate
models for their
analysis. Manual
calculations are
provided for early
examples, allowing
the reader to follow
the analyses in
detail. More
complex

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calculations rely on the statistical software R, but are easily transferable to other software.

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blocking factors),
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models, other
nonlinear models,
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addresses issues
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designing various
computer

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experiments. The sixth section explores "cross-cutting" issues relevant to all experimental designs, including robustness and algorithms. The final section illustrates the application of experimental design in recently

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basic sciences, and

any discipline that

depends on

controlled

experimental

investigation.

Formulation

Simplified