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Statistical  
Methods For  
The Ysis Of  
Large Data Sets  
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Introduction to

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Techniques and Its

Applications | Data

Analysis - Great

Learning Advanced

Statistics |

Exploratory Data

Analysis For

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~~Statistical~~ ~~Methods For~~ ~~The Ysis Of~~ ~~Large Data Sets~~  
~~Beginners | Data~~  
~~Science | Great~~  
~~Learning~~ Advanced  
Statistics: a tour of  
some techniques

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Statistical Methods

II George

Michailidis ~~Effective~~

~~use of advanced~~

~~statistical methods~~

~~in research Part 1~~

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Presentation Mark

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Statistical Analysis

MOE 112/PA 503

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Statistical Methods

- Z, T, and F Tests

~~Workshop Day 2:~~

~~Advanced~~

~~Statistical Methods~~

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~~u0026 Dynamic  
Data Visualizations  
for Mental Health  
Studies Effective~~

~~use of advanced~~

~~statistical methods  
in research Part III~~

Statistics for Data

Science |

Probability and

Statistics |

Statistics Tutorial |

Ph.D. (Stanford)

How I Would Learn



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Statistical (If I  
Had to Start Over)

---

Statistic for  
beginners |

Statistics for Data

Science Statistics  
and Probability Full  
Course || Statistics

For Data Science  
Machine Learning  
with Python |

Machine Learning  
Tutorial for  
Beginners |

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Machine Learning

Tutorial

Biostatistics

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for Beginners to

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Learn about the t-

test, the chi square

test, the p value

and more

Statistical Tests:

Choosing which

statistical test to

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use Learn SPSS in  
15 minutes

Statistical data  
analysis |

Statistical Data  
Science | Part 1

StatQuest: P

Values, clearly  
explained Statistics

- A Full University

Course on Data

Science Basics

~~Advanced Statistics~~

~~Main Lecture Unit 1~~

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Part A Statistical  
Methods in  
Analyzing Data (for  
Beginning  
Researchers)

Effective use of  
advanced  
statistical methods  
in research Part 2  
Introduction to  
Statistics Teach me  
STATISTICS in half  
an hour!

---

Understanding

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Advanced

Statistical Methods

Chapman \u0026amp;

Hall CRC Texts in

Statistical Science

Quantitative Data

Analysis 101

Tutorial: Statistics

Explained Simply +

Examples

Advanced

Statistical Methods

For The

Modern basketball

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debates often include one of the parties citing advanced analytics to prove their point. But are those metrics any good?

What is the best advanced statistic for basketball? NBA executives weigh in  
A Montana State University-led

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research group  
studying viral  
spillover from bat  
populations to  
humans is one of  
only two teams  
selected for the ...

MSU Researchers  
Awarded \$4M for  
Global Bat Virus  
Study

Researchers have  
used a 100-year

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Statistical  
observational  
dataset and the  
most advanced  
Methods For  
The Ysis Of  
Large Data Sets  
methods to model  
climate extremes,  
demonstrating the  
evolving dynamics  
of heatwaves  
throughout Europe  
under the impact  
of ...

New Model Shows  
Increase in

*Page 16/86*



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Heatwaves Across  
Europe over the  
Past Century

Peter teaches and  
performs statistical  
research with a  
focus on advanced  
statistical methods,  
regression analysis,  
multivariate  
analysis,  
mathematical  
statistics, and data  
mining. He

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Specializes...

Methods For

Hypothesis Testing

The Ysis Of

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research with a

focus on advanced

statistical methods,

regression analysis,

multivariate

analysis,

mathematical

statistics, and data

mining. He

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Specializes...

Methods For

How Does the  
Bureau of Labor

Statistics  
Large Data Sets

Determine the  
Consumer Price  
Index (CPI)?

Freedman makes a  
thorough appraisal  
of the statistical  
methods in these  
papers and in a  
variety of other ...

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The book is written  
for advanced  
undergraduates  
and beginning  
graduate students  
in ...

Theory and  
Practice

The updated  
research report on  
offers a precise  
analysis of the  
value chain

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assessment for the  
forecast period of  
2021 to 2028 The  
Rhodium Catalyst  
Market study  
includes a  
comprehensive  
market ...

Rhodium Catalyst  
Market Global  
Industry Outlook  
and Future Scope  
2021-2028 | BASF,

*Page 21/86*

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Johnson Matthey,  
Heraeus, Stanford  
Advanced Materials  
The application  
deadline for the  
online graduate  
business programs  
at Texas Tech  
University (Rawls),  
a public school, is  
rolling. For these  
programs, the  
majority of the  
online classes are

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Texas Tech  
University (Rawls)  
Students who  
emphasize the  
area of  
entrepreneurship  
have the  
opportunity to work  
with The Rutgers  
Advanced Institute  
for the ... the early  
research

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requirement by  
taking Statistical  
Linear Models and  
The Ysis Of  
...

Large Data Sets

Organization

Management

Concentration

The electron  
microscope market  
has been garnering  
positive growth  
over a long period  
and is expected to



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be so the same  
consistently.

Electron  
microscopes are  
technologically  
advanced devices  
used for ...

Electron  
Microscope Market  
| Growing Demand  
for Technologically  
Advanced  
Visualizations Drive

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the Market Growth

Allied Market

Research recently

published a report

Super Absorbent

Polymer Market by

Type Synthetic and

Natural Application

Personal Care

Healthcare

Agriculture

Horticulture and

Others and

Production ...

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Statistical

Super Absorbent  
Polymer Market  
Statistics 2027:

Major Factors that

can Increase the  
Global Demand  
Researchers

combined large  
sets of real-world  
solar data and  
advanced machine  
learning to ... for  
key weather-

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related words. The analysis methods they used for this study has since been published...

Hidden factors that affect solar farms during severe weather

Analysts say more and more sports analytics is turning to advanced

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models like xG,  
which is a  
statistical measure  
... of xG was to  
create the most  
precise method for  
shot quality  
evaluation.

Where Leeds  
United, Arsenal,  
Everton, and  
Wolves 'should' sit  
in Premier League

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table - according to  
experts

Analysts say more  
and more sports  
analytics turn to  
advanced models  
like xG, which is a  
statistical measure  
of ... of xG was to  
create the most  
precise method for  
shot quality  
evaluation.

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League One xG

table: Where

Sunderland,

Lincoln, Burton and

Wigan 'should' sit

in table - according

to experts

The report starts

with an overview of

the Splints Market

industry chain

structure, explains

the industry

environment, and

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Statistical  
analyzes the  
market size  
forecast for Splints  
by different types,  
applications...

Global Splints  
Market Size 2021 |  
Key Regions,  
Prominent Players,  
Share, Future  
Demand, Business  
Trends, Statistics  
and Forecast upto

*Page 32/86*



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2026

Statistical  
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Large Data Sets

Ltd –:The term  
Afinitor Drug  
market value is  
expected to gain  
significant  
momentum, where  
the market is  
growing due to the  
advent of  
advanced ...  
industry facts and  
statistics in 2021.

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Afinitor Drug

Market 2021

Enterprise Methods

With Top Key

Players- Novartis

Ltd -:The term

Bladed Trocars

market value is

expected to gain

significant

momentum, where

the market is

growing due to the

advent of

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advanced ...  
industry facts and  
statistics in 2021.

Providing a much-  
needed bridge  
between  
elementary  
statistics courses  
and advanced  
research methods  
courses,

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Statistical

Understanding  
Advanced

Methods For  
Statistical Methods

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helps students

Large Data Sets  
grasp the

fundamental

assumptions and

machinery behind

sophisticated

statistical topics,

such as logistic

regression,

maximum

likelihood,

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bootstrapping,  
nonparametrics,  
and Bayesian  
methods. The book  
teaches students  
how to properly  
model, think  
critically, and  
design their own  
studies to avoid  
common errors. It  
leads them to think  
differently not only  
about math and

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Statistics but also  
about general  
research and the  
scientific method.

With a focus on  
statistical models  
as producers of  
data, the book  
enables students to  
more easily  
understand the  
machinery of  
advanced  
statistics. It also

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downplays the  
"population"  
interpretation of  
statistical models  
and presents

Bayesian methods  
before frequentist  
ones. Requiring no  
prior calculus  
experience, the  
text employs a  
"just-in-time"  
approach that  
introduces

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mathematical topics, including calculus, where needed. Formulas throughout the text are used to explain why calculus and probability are essential in statistical modeling. The authors also intuitively explain the theory and



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Statistical  
Methods For  
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logic behind real  
data analysis,  
incorporating a  
range of

application

examples from the  
social, economic,  
biological, medical,  
physical, and  
engineering  
sciences. Enabling  
your students to  
answer the why  
behind statistical

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Statistical methods, this text teaches them how to successfully draw conclusions when the premises are flawed. It empowers them to use advanced statistical methods with confidence and develop their own statistical recipes. Ancillary materials are

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available on the  
book's website.

Methods For

The Ysis Of

Large Data Sets

The theme of the meeting was "Statistical Methods for the Analysis of Large Data-Sets". In recent years there has been increasing interest in this subject; in fact a huge

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Statistical  
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The Ysis Of  
Large Data Sets

quantity of information is often available but standard statistical techniques are usually not well suited to managing this kind of data.

The conference serves as an important meeting point for European researchers working on this

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topic and a number of European statistical societies participated in the organization of the event. The book includes 45 papers from a selection of the 156 papers accepted for presentation and discussed at the conference on "Advanced

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Statistical Methods  
for the Analysis of  
Large Data-sets."

The Ysis Of

This book gathers  
invited

presentations from  
the 2nd

Symposium of the  
ICSA- CANADA

Chapter held at the  
University of  
Calgary from

August 4-6, 2015.

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The aim of this  
Symposium was to  
promote advanced  
statistical methods  
in big-data  
sciences and to  
allow researchers  
to exchange ideas  
on statistics and  
data science and to  
embraces the  
challenges and  
opportunities of  
statistics and data

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Statistical  
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Large Data Sets

science in the  
modern world. It  
addresses diverse  
themes in  
advanced  
statistical analysis  
in big-data  
sciences, including  
methods for  
administrative data  
analysis, survival  
data analysis,  
missing data  
analysis, high-



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dimensional and  
genetic data  
analysis,  
longitudinal and  
functional data  
analysis, the  
design and analysis  
of studies with resp  
onse-dependent  
and multi-phase  
designs, time  
series and robust  
statistics,  
statistical inference

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Statistical

based on  
likelihood,  
empirical likelihood  
and estimating

functions. The

editorial group

selected 14 high-  
quality

presentations from  
this successful

symposium and  
invited the

presenters to  
prepare a full

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chapter for this book in order to disseminate the findings and promote further research

collaborations in this area. This timely book offers new methods that impact advanced statistical model development in big-data sciences.

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Statistical

This book gathers  
invited

presentations from  
the 2nd

Symposium of the  
ICSA- CANADA

Chapter held at the  
University of  
Calgary from

August 4-6, 2015.

The aim of this  
Symposium was to  
promote advanced

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Statistical methods in big-data sciences and to allow researchers to exchange ideas on statistics and data science and to embraces the challenges and opportunities of statistics and data science in the modern world. It addresses diverse

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Statistical

themes in  
advanced  
statistical analysis  
in big-data

sciences, including

methods for  
administrative data

analysis, survival

data analysis,

missing data

analysis, high-

dimensional and

genetic data

analysis,

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Statistical and  
functional data  
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design and analysis  
of studies with resp  
onse-dependent  
and multi-phase  
designs, time  
series and robust  
statistics,  
statistical inference  
based on  
likelihood,  
empirical likelihood

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and estimating functions. The editorial group selected 14 high-quality presentations from this successful symposium and invited the presenters to prepare a full chapter for this book in order to disseminate the



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findings and promote further research collaborations in this area. This timely book offers new methods that impact advanced statistical model development in big-data sciences.

Ideal for non-math majors, Advanced

*Page 57/86*

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Advanced

and Multivariate  
Statistical Methods  
Statistical Methods  
teaches students  
to interpret,  
present, and write  
up results for each  
statistical  
technique without  
overemphasizing  
advanced math.  
This highly applied  
approach covers  
the why, what,  
when and how of

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advanced and multivariate statistics in a way that is neither too technical nor too mathematical.

Students also learn how to compute each technique using SPSS software. New to the Sixth Edition Instructor ancillaries are now

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available with the sixth edition. All SPSS directions and screenshots have been updated to Version 23 of the software. Student learning objectives have been added as a means for students to target their learning and for instructors to focus their

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instruction. Key words are reviewed and reinforced in the end of chapter material to ensure that students understand the vocabulary of advanced and multivariate statistics.

Data collected in psychiatry and

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Statistical methods for the analysis of large data sets are related fields are complex because outcomes are rarely directly observed, there are multiple correlated repeated measures within individuals, there is natural heterogeneity in treatment responses and in other characteristics in

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the populations.

Simple statistical methods do not work well with such data. More

advanced statistical methods capture the data complexity better, but are difficult to apply appropriately and correctly by investigators who do not have

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Statistical  
Methods For  
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advanced training  
in statistics. This  
book presents, at a  
non-technical level,  
several approaches  
for the analysis of  
correlated data:  
mixed models for  
continuous and  
categorical  
outcomes,  
nonparametric  
methods for  
repeated measures



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Statistical mixture models for heterogeneous trajectories over time. Separate chapters are devoted to techniques for multiple comparison correction, analysis in the presence of missing data, adjustment for

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covariates,

assessment of  
mediator and

moderator effects,

study design and

sample size

considerations. The

focus is on the

assumptions of

each method,

applicability and

interpretation

rather than on

technical details.

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Statistical Methods For The Ysis Of Large Data Sets  
Features Provides an overview of intermediate to advanced statistical methods applied to psychiatry. Takes a non-technical approach with mathematical details kept to a minimum. Includes lots of detailed examples from

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published studies  
in psychiatry and  
related fields.

Software programs,  
data sets and

output are  
available on a  
supplementary  
website. The  
intended audience  
are applied  
researchers with  
minimal knowledge  
of statistics,

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although the book could also benefit collaborating statisticians. The book, together with the online materials, is a valuable resource aimed at promoting the use of appropriate statistical methods for the analysis of repeated measures

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data. Ralitzza

Gueorguieva is a

Senior Research

Scientist at the

Department of

Biostatistics, Yale

School of Public

Health. She has

more than 20 years

experience in

statistical

methodology

development and

collaborations with

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psychiatrists and  
other researchers,  
and is the author of  
over 130 peer-  
reviewed  
publications.

Advanced Statistics  
with Applications in  
R fills the gap  
between several  
excellent  
theoretical  
statistics textbooks

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and many applied statistics books where teaching reduces to using existing packages. This book looks at what is under the hood. Many statistics issues including the recent crisis with p-value are caused by misunderstanding



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of statistical  
concepts due to  
poor theoretical  
background of  
practitioners and  
applied

statisticians. This  
book is the product  
of a forty-year  
experience in  
teaching of  
probability and  
statistics and their  
applications for

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Solving real-life problems. There are more than 442 examples in the book: basically every probability or statistics concept is illustrated with an example accompanied with an R code. Many examples, such as Who said  $\pi$ ? What team is better? The

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fall of the Roman

empire, James

Bond chase

problem, Black

Friday shopping,

Free fall equation:

Aristotle or Galilei,

and many others

are intriguing.

These examples

cover biostatistics,

finance, physics

and engineering,

text and image

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Statistical

analysis,  
epidemiology,  
spatial statistics,  
sociology, etc.

Advanced Statistics

with Applications in  
R teaches students  
to use theory for  
solving real-life  
problems through  
computations:  
there are about  
500 R codes and  
100 datasets.

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These data can be freely downloaded from the author's website [dartmouth.edu/~eugened](http://dartmouth.edu/~eugened).

This book is suitable as a text for senior undergraduate students with major in statistics or data science or graduate students. Many researchers

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who apply statistics on the regular basis find explanation of many fundamental concepts from the theoretical perspective illustrated by concrete real-world applications.

Algebra of vectors and matrices;

*Page 78/86*

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Theory of

distributions; The

theory of linear

estimation and

tests of **Data Sets**

hypotheses; The

general theory of

estimation and the

method of

maximum

likelihood; Large

sample tests of

hypotheses with

applications to

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Statistical  
problems of  
estimation; Tests of  
homogeneity of  
variances and  
correlations; Tests  
of significance in  
multivariate  
analysis; Statistical  
inference applied  
to classificatory  
problems; The  
concept of distance  
and the problem of  
group



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constellations.

Methods For

Advanced Statistics  
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for Kinesiology and

Exercise Science is

the first textbook

to cover advanced

statistical methods

in the context of

the study of human

performance.

Divided into three

distinct sections,

the book

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introduces and explores in depth both analysis of variance (ANOVA) and regressions analyses, including chapters on: preparing data for analysis; one-way, factorial, and repeated-measures ANOVA; analysis of covariance and multiple analyses

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of variance and  
covariance;  
diagnostic tests;  
regression models  
for quantitative  
and qualitative  
data; model  
selection and  
validation; logistic  
regression Drawing  
clear lines between  
the use of IBM  
SPSS Statistics  
software and

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interpreting and  
analyzing results,  
and illustrated with  
sport and exercise  
science-specific  
sample data and  
results sections  
throughout, the  
book offers an  
unparalleled level  
of detail in  
explaining  
advanced  
statistical

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Advanced Statistics  
for Kinesiology and  
Exercise Science is

an essential text  
for any student  
studying advanced  
statistics or

research methods  
as part of an

undergraduate or  
postgraduate

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degree programme  
in kinesiology,  
sport and exercise  
science, or health  
science.

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