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Statistics The Art
And Science Of

Statistics

The Art

And

Science

Of

Learning

From Data

2nd

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Statistics The Art
Edition
And Science Of

*For courses in
introductory statistics.
The Art and Science of
Learning from Data
Statistics: The Art and
Science of Learning
from Data, Fourth
Edition, takes a
conceptual approach,
helping students
understand what*

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statistics is about and learning the right questions to ask when analyzing data, rather than just memorizing procedures. This book takes the ideas that have turned statistics into a central science in modern life and makes them accessible, without compromising the necessary rigor.

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Students will enjoy reading this book, and will stay engaged with its wide variety of real-world data in the examples and exercises. The authors believe that it's important for students to learn and analyze both quantitative and categorical data. As a result, the text pays

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*greater attention to the
analysis of proportions
than many other*

*introductory statistics
texts. Concepts are
introduced first with
categorical data, and
then with quantitative
data. Also available
with MyStatLab*

*MyStatLab(tm) is an
online homework,
tutorial, and*

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assessment program
Learning From
designed to work with
Data, 2nd Edition
this text to engage

*students and improve
results. Within its
structured environment,
students practice what
they learn, test their
understanding, and
pursue a personalized
study plan that helps
them absorb course
material and*

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*understand difficult
concepts. For this
edition, new web apps
with complementary
exercises, a tightly
integrated video
program, and strong
exercise coverage
enhance student
learning. Note: You are
purchasing a
standalone product;*

*MyLab(tm) &
Page 7/253*

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and MyLab &*

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*Statistics: The Art and
Science of Learning
from Data*

*In this insightful book,
an underwater
archaeologist and*

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survival coach shows how understanding the collapse of civilizations can help us prepare for a troubled future.

Pandemic, climate change, or war: our era is ripe with the odor of doomsday. In movies, books, and more, our imaginations run wild with visions of dreadful,

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abandoned cities and returning to the land in a desperate attempt at survival. In The Next Apocalypse, archaeologist Chris Begley argues that we completely misunderstand how disaster works. Examining past collapses of civilizations, such as

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the Maya and Rome, he argues that these breakdowns are actually less about cataclysmic destruction than they are about long processes of change. In short: it's what happens after the initial uproar that matters. Some people abandon their homes and neighbors; others

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*band together to start
anew. As we anticipate
our own fate, Begley
tells us that it was
communities, not lone
heroes, who survived
past apocalypses—and
who will survive the
next. Fusing
archaeology,
survivalism, and social
criticism, The Next
Apocalypse is an*

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*essential read for
anxious times.*

*Bullshit isn't what it
used to be. Now, two
science professors give
us the tools to
dismantle
misinformation and
think clearly in a world
of fake news and bad
data. "A modern
classic . . . a straight-
talking survival guide*

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*to the mean streets of a
dying democracy and a
global*

*pandemic.”—Wired
Misinformation,
disinformation, and
fake news abound and
it’s increasingly
difficult to know
what’s true. Our media
environment has
become hyperpartisan.
Science is conducted by*

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press release. Startup culture elevates bullshit to high art. We are fairly well equipped to spot the sort of old-school bullshit that is based in fancy rhetoric and weasel words, but most of us don't feel qualified to challenge the avalanche of new-school bullshit presented in the

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language of math, science, or statistics. In Calling Bullshit, Professors Carl Bergstrom and Jevin West give us a set of powerful tools to cut through the most intimidating data. You don't need a lot of technical expertise to call out problems with data. Are the numbers

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or results too good or too dramatic to be true? Is the claim comparing like with like? Is it confirming your personal bias? Drawing on a deep well of expertise in statistics and computational biology, Bergstrom and West exuberantly unpack examples of selection

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*bias and muddled data
visualization,
distinguish between
correlation and
causation, and examine
the susceptibility of
science to modern
bullshit. We have
always needed people
who call bullshit when
necessary, whether
within a circle of
friends, a community*

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of scholars, or the citizenry of a nation. Now that bullshit has evolved, we need to relearn the art of skepticism.

Qualitative interviewing is among the most widely used methods in the social sciences, but it is arguably the least understood. In The

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*Science and Art of
Learning From
Interviewing, Kathleen
Gerson and Sarah*

*Damaske offer clear,
theoretically informed
and empirically rich
strategies for
conducting interview
studies. They present
both a rationale and
guide to the science-
and art-of in-depth
interviewing to take*

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readers through all the steps in the research process, from the initial stage of formulating a question to the final one of presenting the results. Gerson and Damaske show readers how to develop a research design for interviewing, decide on and find an appropriate sample,

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construct a

questionnaire, conduct

probing interviews, and

analyze the data they

collect. At each stage,

they also provide

practical tips about

how to address the ever-

present, but rarely

discussed challenges

that qualitative

researchers routinely

encounter, particularly

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emphasizing the relationship between conducting well-crafted research and building powerful social theories. With an engaging, accessible style, The Science and Art of Interviewing targets a wide range of audiences, from upper-level undergraduates and graduate methods

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courses to students
embarking on their
dissertations to

seasoned researchers at
all stages of their
careers.

The Art and Science of
Making Up Your Mind
A Comprehensive
Framework for
Effective Instruction
From Perspective
Drawing to Quantum

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And Science Of
Randomness
The Art and Science of
Learning From
Data 2nd Edition

Remembering
Everything

Moonwalking with

Einstein

How to Learn from

Data

Making Money Out of

Data

Foundations of
Statistics for

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**Data Scientists:
Learning From
With R and
Python is**

**designed as a
textbook for a
one- or two-
term
introduction to
mathematical
statistics for
students
training to**

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**become data
scientists. It is
an in-depth
presentation of
the topics in
statistical
science with
which any data
scientist should
be familiar,
including
probability**

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**distributions,
descriptive and
inferential
statistical
methods, and
linear modeling.
The book
assumes
knowledge of
basic calculus,
so the
presentation**

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And Science Of

**can focus on
"why it works"
as well as "how
to do it."**

**Compared to
traditional
"mathematical
statistics"
textbooks,
however, the
book has less
emphasis on**

Access Free
Statistics The Art
And Science Of
**probability
theory and more
emphasis on
using software
to implement
statistical
methods and to
conduct
simulations to
illustrate key
concepts. All
statistical**

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And Science Of
Learning From
Data 2nd Edition

**analyses in the
book use R
software, with
an appendix
showing the
same analyses
with Python.
The book also
introduces
modern topics
that do not
normally appear**

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**in mathematical
statistics texts
but are highly
relevant for
data scientists,
such as
Bayesian
inference,
generalized
linear models
for non-normal
responses (e.g.,**

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**logistic
regression and
Poisson**

**loglinear
models), and
regularized
model fitting.
The nearly 500
exercises are
grouped into
"Data Analysis
and**

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And Science Of
Applications"
Learning From
**and "Methods
Data 2nd Edition
and Concepts."**

**Appendices
introduce R and
Python and
contain
solutions for
odd-numbered
exercises. The
book's website
has expanded R,**

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**Python, and
Matlab
appendices and
all data sets
from the
examples and
exercises.**

**NEW YORK
TIMES
BESTSELLER •
NAMED ONE OF
THE BEST**

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**BOOKS OF THE
YEAR BY THE
ECONOMIST**

**“The most
important book
on decision
making since
Daniel
Kahneman's
Thinking, Fast
and
Slow.”—Jason**

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And Science Of
**Zweig, The Wall
Street Journal
Data 2nd Edition**

**Everyone would
benefit from
seeing further
into the future,
whether buying
stocks, crafting
policy,
launching a new
product, or
simply planning**

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**the week's
meals.**

**Unfortunately,
people tend to
be terrible
forecasters. As
Wharton
professor Philip
Tetlock showed
in a landmark
2005 study,
even experts'**

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And Science Of
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**predictions are
only slightly
better than
chance.**

**However, an
important and
underreported
conclusion of
that study was
that some
experts do have
real foresight,**

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And Science Of
**and Tetlock has
spent the past
decade trying to
figure out why.**

**What makes
some people so
good? And can
this talent be
taught? In Super
forecasting,
Tetlock and
coauthor Dan**

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And Science Of
Learning From
Data, 2nd Edition

**Gardner offer a
masterwork on
prediction,
drawing on
decades of
research and
the results of a
massive, govern
ment-funded
forecasting
tournament.
The Good**

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And Science Of
Judgment
Project involves
Data 2nd Edition
tens of

thousands of
ordinary people
—including a
Brooklyn
filmmaker, a
retired pipe
installer, and a
former ballroom
dancer—who set

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And Science Of
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**out to forecast
global events.
Some of the
volunteers have
turned out to be
astonishingly
good. They've
beaten other
benchmarks,
competitors,
and prediction
markets.**

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And Science Of
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**They've even
beaten the
collective
judgment of
intelligence
analysts with
access to
classified
information.
They are "superf
orecasters." In
this**

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And Science Of
**groundbreaking
and accessible
book, Tetlock**

**and Gardner
show us how we
can learn from
this elite group.
Weaving
together stories
of forecasting
successes (the
raid on Osama**

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And Science Of

**bin Laden's
compound) and
failures (the Bay
of Pigs) and
interviews with
a range of high-
level decision
makers, from
David Petraeus
to Robert Rubin,
they show that
good**

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forecasting
Learning From
doesn't require
Data 2nd Edition
powerful

**computers or
arcane
methods. It
involves
gathering
evidence from a
variety of
sources,
thinking**

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And Science Of
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**probabilistically,
working in
teams, keeping
score, and being
willing to admit
error and
change course.
Superforecastin
g offers the first
demonstrably
effective way to
improve our**

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And Science Of
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Data 2nd Edition

**ability to predict
the
future—whether
in business,
finance, politics,
international
affairs, or daily
life—and is
destined to
become a
modern classic.
Responding to**

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**the changes
taking place in
the post-Cold
War era, the
editors of this
volume have
brought
together more
than forty
distinguished
Soviet and U.S.
geographers to**

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redefine
Learning From
Data 2nd Edition
**geography as a
discipline and to
examine its
relationship to
other sciences
and to the arts.
Challenging
inevitable
barriers of
language and of
differing social,**

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**cultural, and
scientific
backgrounds,
each contributor
provides
personal insight
and perspective,
shedding unique
light onto this
often poorly
understood
discipline. The**

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And Science Of
Learning From
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**book covers a
broad sweep of
issues, ranging
from the
methods of
geography to
examples of
practical work
done by
geographers in
Russia and the
former republics**

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**Learning From
Data, 2nd Edition**
and the United
States. The
contributors

explore and
define advances
in quantitative
technique,
increasingly
sophisticated
methodology,
and the
essential

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**relationship
between these
changes and
theory building.
They also
examine the
application of
geography in
Soviet and U.S.
schools as well
as the demands
that shifting**

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**world events
are placing on
the discipline.**

**The discussions
not only reveal
the individual
perspectives of
each
geographer but
also provide a
unique forum
for the**

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**exploration of
similarities and
differences**
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**within the
world's two
largest
geographic
communities.
The volume
concludes with
an afterword by
Torsten Hager**

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strand.

**In addition to
linear**

**perspective,
complex
numbers and
probability were
notable
discoveries of
the
Renaissance.**

While the power

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And Science Of
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**of perspective,
which
transformed
Renaissance art,
was quickly
recognized, the
scientific
establishment
treated both
complex
numbers and
probability with**

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much suspicion.

**It was only in
the twentieth
century that
quantum theory
showed how
probability
might be
molded from
complex
numbers and
defined the**

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**notion of
“complex
probability
amplitude”.**

**From a
theoretical point
of view,
however, the
space opened to
painting by
linear
perspective and**

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And Science Of
**that opened to
science by
complex**

**numbers share
significant
characteristics.**

**The Art of
Science
explores this
shared field
with the
purpose of**

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Data 2nd Edition

**extending
Leonardo's
vision of
painting to
issues of
mathematics
and
encouraging the
reader to see
science as an
art. The
intention is to**

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And Science Of
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**restore a visual
dimension to
mathematical
sciences - an
element dulled,
if not obscured,
by historians,
philosophers,
and scientists
themselves.
The Art and
Science of**

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And Science Of
**Algorithms that
Make Sense of
Data** 2nd Edition

**The Art and
Science of the
Universe**

**The Art of
Statistics
The Art And
Science Of
Geography**

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And Science Of
**Learning to
Learn**
The Art &

**Science of
Learning Design**

We live in an era
defined by a wealth
of open and readily
available
information, and
the accelerated
evolution of social,

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mobile and creative technologies. The provision of knowledge, once a primary role of educators, is now devolved to an immense web of free and readily accessible sources. Consequently, educators need to redefine their role

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not just “from sage on the stage to guide on the side” but, as more and more voices insist, as “designers for learning”. The call for such a repositioning of educators is heard from leaders in the field of technology-enhanced learning

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(TEL) and resonates well with the growing culture of design-based research in Education.

However, it is still struggling to find a foothold in educational practice. We contend that the root causes of this

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discrepancy are the lack of articulation of design practices and methods, along with a shortage of tools and representations to support such practices, a lack of a culture of teacher-as-designer among practitioners, and insufficient

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theoretical
development. The
Art and Science of
Learning Design
(ASLD) explores
the frameworks,
methods, and tools
available for
teachers,
technologists and
researchers
interested in
designing for

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And Science Of
learning Learning
Design theories
Data 2nd Edition

arising from
findings of research
are explored,
drawing upon
research and
practitioner
experiences. It then
surveys current
trends in the
practices, methods,
and methodologies

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And Science Of
of Learning Design.
Learning From
Data, 2nd Edition
Highlighting the
translation of
theory into
practice, this book
showcases some of
the latest tools that
support the
learning design
process itself.
An Introduction to
Statistical Learning
provides an

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accessible overview
of the field of
statistical learning,
an essential toolset
for making sense of
the vast and
complex data sets
that have emerged
in fields ranging
from biology to
finance to
marketing to
astrophysics in the

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past twenty years.

This book presents
some of the most

important modeling
and prediction

techniques, along

with relevant

applications. Topics

include linear

regression,

classification,

resampling

methods, shrinkage

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approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to

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facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open

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source statistical
software platform.

Two of the authors

co-wrote The
Elements of

Statistical Learning

(Hastie, Tibshirani
and Friedman, 2nd

edition 2009), a

popular reference

book for statistics

and machine

learning

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researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge

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statistical learning
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Data 2nd Edition
techniques to
analyze their data.

The text assumes
only a previous
course in linear
regression and no
knowledge of
matrix algebra.

Statistics: the Art
and Science of
Learning from Data
Art and science

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work is
experiencing a
dramatic rise
coincident with
burgeoning Science
and Technology
Studies (STS)
interest in this
area. Science has
played the role of
muse for the arts,
inspiring
imaginative

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reconfigurations of
Learning From
Data, 2nd Edition
scientific themes
and exploring their
cultural resonance.

Conversely, the
arts are often
deployed in the
service of science
communication,
illustration, and
popularization. STS
scholars have
sought to resist the

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instrumentalization
Learning From
of the arts by the
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sciences,
emphasizing
studies of theories
and practices
across disciplines
and the distinctive
and complementary
contributions of
each. The
manifestation of
this commonality of

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creative and
Learning From
epistemic practices
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is the emergence of
Art, Science, and
Technology Studies
(ASTS) as the
interdisciplinary
exploration of
art-science. This
handbook defines
the modes,
practices, crucial
literature, and

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research interests of this emerging field. It explores the questions, methodologies, and theoretical implications of scholarship and practice that arise at the intersection of art and STS. Further, ASTS demonstrates how

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the arts are
intervening in STS.
Drawing on
methods and
concepts derived
from STS and allied
fields including
visual studies,
performance
studies, design
studies, science
communication,
and aesthetics and

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the knowledge of practicing artists and curators, ASTS is predicated on the capacity to see both art and science as constructions of human knowledge-making.

Accordingly, it posits a new analytical vernacular,

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enabling new ways
of seeing,
understanding, and
thinking critically
about the world.

This handbook
provides scholars
and practitioners
already familiar
with the themes
and tensions of
art-science with a
means of

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connecting across
disciplines. It
proposes
organizing
principles for
thinking about
art-science across
the sciences, social
sciences,
humanities, and
arts. Encounters
with art and
science become

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meaningful in
relation to
practices and
materials manifest
as perceptual
habits, background
knowledge, and
cultural norms. As
the chapters in this
handbook
demonstrate, a
variety of STS tools
can be brought to

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And Science Of
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bear on art-science
so that systematic
research can be

conducted on this
unique set of
knowledge-making
practices.

The Art of Writing
for Data Science

Art of Doing
Science and
Engineering

The Art and

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Science of
Marketing
The Art of Science
The Science and
Art of Interviewing
Statistics: the Art
and Science of
Learning from Data
Student Laboratory
Workbook for
Statistics
Discover

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foundational and
advanced

techniques in
quantitative

equity trading

from a veteran

insider In

Quantitative

Portfolio

Management: The

Art and Science

of Statistical

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Arbitrage,
distinguished ph
ysicist-turned-
quant Dr. Michael
Isichenko
delivers a
systematic
review of the
quantitative
trading of
equities, or
statistical

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arbitrage. The book teaches you how to source financial data, learn patterns of asset returns from historical data, generate and combine multiple forecasts, manage risk,

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build a stock
portfolio
optimized for risk
and trading
costs, and
execute trades. In
this important
book, you'll
discover:
Machine learning
methods of
forecasting stock

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reduction, and
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the pitfalls of
overfitting and
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dimensionality,
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overfitting” in
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like quantitative
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statistical and quantitative disciplines. It is an indispensable guide for anyone who hopes to improve their understanding of how to apply data science, machine learning, and optimization to

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the stock market.
The book blends
the art of
marketing
(implementing
programs to
attain and retain
customers) with
the science of
marketing (what
we know from
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markets,
customer
behaviour, et
cetera) to provide
insight for
marketing
managers about
how to implement
marketing more
effectively to
both create and
capture the value

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of the offers they make to their target customers. In the process it questions the usefulness of some of the more recent marketing fads. Clearly written and presented the book is ideal for

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different stories,
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set; a panic
attack type of
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our protagonist
and these
complex

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business
problems turn
into millions of
dollars. This
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experiences of
the author of over
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provides valuable
insights on how
millions of

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about the quest
to discover the
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ancient

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Foer's yearlong
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memory under
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athletes." He
draws on
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research, a
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and venerable
tricks of the
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of human
memory. From
the United
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Championship to
deep within the

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author's own
mind, this is
an electrifying
work of
journalism that
reminds us
that, in every
way that
matters, we are
the sum of our
memories.

"Today
econometrics

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has been widely
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empirical study
of economics.
As an empirical
science,
econometrics
uses rigorous
mathematical
and statistical
methods for
economic
problems.

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Understanding
the
methodologies
of both
econometrics
and statistics
is a crucial
departure for
econometrics.
The primary
focus of this
book is on
providing an

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understanding
of statistical
properties

behind

econometric

methods.

Following the
introduction in

Chapter 1,

Chapter 2

provides the

methodological

review of both

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econometrics
and statistics
in different
periods since
the 1930s.

Chapters 3 and
4 explain the
underlying
theoretical
methodologies
for estimated
equations in
the simple

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regression and
multiple
regression
models and
discuss the
debates about P-
values in
particular.
This part of
the book offers
the reader a
richer
understanding

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of the methods
of statistics
behind the
methodology of
econometrics.
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chapters of the
book are
focused on the
discussion of
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models using
time series

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data,
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causal

econometric
models and the
latest
statistical
techniques. By
concentrating
on dynamic
structural
linear models
like state-

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space models
and the
Bayesian
approach, the
book alludes to
the fact that
this
methodological
study is not
only a science
but also an
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serves as a

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relevance to
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questions. This
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science in
modern life and
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examples that
feature
intriguing
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has been
deteriorating
since the
advent of such
modern
diagnostic
tools as two-
dimensional ech
ocardiography
and nuclear
imaging. At
best, the
teaching has

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been sketchy
and too
superficial for
the student to
appreciate the
pathophysiological
correlates.
Both invasive
and the
noninvasive
modern
technologies
have

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contributed
substantially
to our
knowledge and
understanding
of cardiac
physical signs
and their patho
physiological
correlates.
However, both
students and
teachers alike

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appear to be
mesmerized by
technological
advances to the
neglect of the
age-old art, as
well as the
substantial
body of
science, of
cardiac
physical
examination. It

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is also sad to
see reputed
journals give
low priority to
articles
related to the
clinical
examination.

Our experience
is
substantiated
by a nationwide
survey of

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internal
medicine and
cardiology
training
programs, which
concluded that
the teaching
and practice of
cardiac
auscultation
received low
emphasis, and
perhaps other

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bedside
diagnostic
skills as well
(1). The state
of the problem
is well
reflected in
the concerns
expressed in
previous
publications
(2-4),
including the

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2001 editorial
in the American
Journal of

Medicine (Vol.
110, pp.

233-235),
entitled

"Cardiac
auscultation
and teaching
rounds: how can
cardiac

auscultation be

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resuscitated?”,
as well as in
the rebuttal,

“Selections
from current
literature.

Horton hears a
Who but no
murmurs—does it
matter?” (5).

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Portfolio

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problem-solver of
complex technical
issues. Consists of
a collection of
stories about the
author's
participation in
significant
discoveries,
relating how those
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Up Your Mind
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tools to help the
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efficiently and
wisely to everyday
dilemmas.

Although most
decisions are
made informally

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(whether intuitively
without deliberate
thought, or based
on careful
reflection), over
the centuries
people have tried
to develop
systematic,
scientific and
structured ways in
which to make

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decisions. Using qualitative counterparts to quantitative models, Rex Brown takes the reader through the basics, like ‘ what is a decision ’ and then considers a wide variety of real-life decisions,

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explaining how the
best judgments
can be made using
logical principles.
Combining multiple
evaluations of the
same judgment
("hybrid judgment")
and exploring
innovative
analytical concepts
(such as "ideal

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judgment"), this book explores and analyzes the skills needed to master the basics of non-mathematical decision making, and what should be done, using real world illustrations of decision methods.

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The book is an
ideal companion
for students of
Thinking,
Reasoning and
Decision-Making,
and also for
anyone wanting to
understand how to
make better
judgments in their
everyday lives.

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A clear, practical,
first-of-its-kind
guide to
communicating
and understanding
numbers and
data—from
bestselling
business author
Chip Heath. How
much bigger is a
billion than a

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million? Well, a million seconds is twelve days. A billion seconds is...thirty-two years.

Understanding numbers is essential—but humans aren't built to understand them. Until very

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recently, most
languages had no
words for numbers
greater than
five—anything
from six to infinity
was known as
“lots.” While the
numbers in our
world have gotten
increasingly
complex, our

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brains are stuck in the past. How can we translate millions and billions and milliseconds and nanometers into things we can comprehend and use? Author Chip Heath has excelled at

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teaching others
about making
ideas stick and
here, in Making
Numbers Count,
he outlines specific
principles that
reveal how to
translate a number
into our brain ' s
language. This
book is filled with

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examples of extreme number makeovers, vivid before-and-after examples that take a dry number and present it in a way that people click in and say “Wow, now I get it!” You will learn principles such as: -SIMPLE

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**PERSPECTIVE
CUES:**
researchers at
Microsoft found
that adding one
simple comparison
sentence doubled
how accurately
users estimated
statistics like
population and
area of countries.

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-VIVIDNESS: get perspective on the size of a nucleus

by imagining a bee in a cathedral, or a pea in a racetrack, which are easier to envision than

“ $1/100,000$ th of the size of an atom. ”

-CONVERT TO A
PROCESS:

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capitalize on our
intuitive sense of
time (5 gigabytes
of music storage

turns into “2
months of
commutes, without
repeating a song”).

-EMOTIONAL

MEASURING

STICKS: frame the
number in a way

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that people
already care about
(“that medical
protocol would
save twice as
many women as
curing breast
cancer”). Whether
you ’ re interested in
global problems
like climate
change, running a

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tech firm or a farm,
or just explaining
how many Cokes
you ' d have to drink
if you burned
calories like a
hummingbird, this
book will help math-
lovers and math-
haters alike
translate the
numbers that

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animate our
world—allowing us
to bring more data,
more naturally, into
decisions in our
schools, our
workplaces, and
our society.

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Statistical
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renowned
sociologists with
experience in both
the field and the
classroom, The Art

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of human lives while
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into what really
happens in the field,
the laboratory, and
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center.

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to assess your
current deciphering
processes, and
present an
innovative

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integrating
quantitative and
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approaches for
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hundreds of
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grasp of
statistical**

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**literacy is more
important than
ever if we want to
separate the fact
from the fiction,
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embellishments
from the raw
evidence -- and
even more so if
we hope to
participate in the
future, rather
than being**

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simple

bystanders. In

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Titanic, whether
a notorious serial
killer could have**

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earlier, and if
screening for
ovarian cancer is
beneficial. The
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not only shows
us how
mathematicians
have used
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science to solve
these problems --
it teaches us how**

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questions,
assumptions, and
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when
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problem, and --
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statistics for the
first time often
encounter in
introductory
courses - guiding
students away
from rote
memorization and
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*weaves in a
unique, action-
packed story
starring Zach, a
character who
thinks like a
student,
processing
information, and
the challenges of
understanding it,
in the same way
a statistics novice*

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featuring Socratic
dialogue, the
story captivates
readers as it
introduces them
to concepts,
eliminating
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statistics anxiety.

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*The book
assumes no
previous statistics
knowledge nor
does it require
the use of data
analysis software.
It covers the
material you
would expect for
an introductory
level statistics
course that*

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*Field's other
books*

*(Discovering
Statistics Using
IBM SPSS*

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Discovering
Statistics Using R)
only touch on, but
with a
contemporary
twist, laying down
strong*

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foundations for understanding classical and Bayesian approaches to data analysis. In doing so, it provides an unrivalled launch pad to further study, research, and inquisitiveness

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*about the real
world, equipping
students with the
skills to succeed
in their chosen
degree and which
they can go on to
apply in the
workplace. The
Story and Main
Characters The
Reality Revolution
In the City of*

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Elpis, in the year 2100, there has been a reality revolution. Prior to the revolution, Elpis citizens were unable to see their flaws and limitations, believing themselves talented and special. This led

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*to a self-absorbed
society in which
hard work and
the collective
good were
undervalued and
eroded. To
combat this,
Professor Milton
Grey invented the
reality prism, a
hat that allowed
its wearers to see*

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*themselves as
they really were -
flaws and all.*

*Faced with the
truth, Elpis
citizens revolted
and destroyed
and banned all
reality prisms.*

*The Mysterious
Disappearance
Zach and Alice
are born soon*

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*after all the
prisms have been
destroyed. Zach,
a musician who
doesn't
understand
science, and
Alice, a geneticist
who is also a whiz
at statistics, are
in love. One
night, after
making a world-*

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*changing
discovery, Alice
suddenly
disappears,
leaving behind a
song playing on a
loop and a file
with her research
on it. Statistics to
the Rescue!
Sensing that she
might be in
danger, Zach*

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*follows the clues
to find her, as he
realizes that the
key to
discovering why
Alice has
vanished is in her
research. Alas!
He must learn
statistics and
apply what he
learns in order to
overcome a*

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*number of deadly
challenges and
find the love of
his life. As Zach
and his pocket
watch, The Head,
embark on their
quest to find
Alice, they meet
Professor Milton
Grey and Celia,
battle zombies,
cross a*

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*probability
bridge, and
encounter*
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*Jig:Saw, a
mysterious
corporation that
might have
something to do
with Alice's
disappearance...*

Author News

*"Eight years ago I
had the idea to*

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*write a fictional
story through
which the student
learns statistics
via a shared
adventure with
the main
character..." Read
the complete
article from Andy
Field on writing
his new book
Times Higher*

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Education article:
“Andy Field takes
statistics

adventure to a
new level” Stay
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using the
framework of a
novel and
illustrations by
one of the
illustrators for the
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Concepts,
Methods, and*

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Cases offers some of the nascent perspectives that situate embodiment as a necessary element in human research. This edited volume brings together philosophical

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*foundations of
embodiment
research with
application of
embodied
methods from
several
disciplines. The
book is divided
into two sections.
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Embodied
Research Design,*

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suggests ways that embodied epistemology may bring deeper understanding to current research theory, and describes the ways in which embodiment is an integral part of the research process. In Part II,

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propose novel
ways to
operationalize
embodied data in
the research
process. The
section is divided
into four sub-
sections: Somatic
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Analysis,*

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*Movement
Systems of
Analysis,
Embodied
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Observations, and
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Mixed Methods.
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proposes a
method case; an
example of a
previously used*

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*research method
that exemplifies
the way in which*

*embodiment is
used in a study.
As such, it can be
used as scaffold
for designing
embodied
methods that
suits the
researcher's
needs. It is suited*

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coursework in

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traditional
research design.
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Science of
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Software Data
provides valuable
information on
analysis

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*techniques often
used to derive
insight from
software data.
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leading data
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training software*

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*source code
comments. It
includes stories
from the trenches
from expert data
scientists
illustrating how to
apply data
analysis in
industry and open
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results to
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apply tools in
data science
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research methods
and case studies
that have
emerged over the
past few years to*

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further

*understanding of
software data*

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from the trenches
of successful data
science initiatives
in industry*

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provides an
introduction to
the mathematical
and algorithmic*

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*algebraic
techniques such
as singular value
decomposition,
the theory of
random walks
and Markov
chains, the
fundamentals of
and important
algorithms for
machine learning,
algorithms and*

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*analysis for
clustering,
probabilistic
models for large
networks,
representation
learning including
topic modelling
and non-negative
matrix
factorization,
wavelets and
compressed*

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sensing.

*Important
probabilistic
techniques are
developed
including the law
of large numbers,
tail inequalities,
analysis of
random
projections,
generalization
guarantees in*

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*machine learning,
and moment
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analysis of phase
transitions in
large random
graphs.
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measures are
discussed such as*

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and graduate
courses in the
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analysis of
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