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2006 Marcy
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Answer Key**

*This is the eBook of
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*media, website access
codes, or print*

*supplements that may
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*Algorithm Design
introduces algorithms
by looking at the real-
world problems that
motivate them. The
book teaches students
a range of design*

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*and analysis
techniques for
problems that arise in
computing
applications. The text
encourages an
understanding of the
algorithm design
process and an
appreciation of the
role of algorithms in
the broader field of*

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computer science.

August 6, 2009

Author, Jon

*Kleinberg, was
recently cited in the
New York Times for
his statistical analysis
research in the
Internet age.*

*The book is an
introductory textbook
mainly for students*

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*of computer science
and mathematics.*

Our guiding phrase is

*"what every
theoretical computer
scientist should know
about linear*

*programming". A
major focus is on
applications of linear
programming, both in
practice and in*

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theory. The book is concise, but at the same time, the main results are covered with complete proofs and in sufficient detail, ready for presentation in class. The book does not require more prerequisites than basic linear algebra,

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*which is summarized
in an appendix. One
of its main goals is to*

*help the reader to see
linear programming
"behind the scenes".*

*Math in Society is a
survey of*

*contemporary
mathematical topics,
appropriate for a
college-level topics*

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*course for liberal arts
major, or as a
general quantitative
reasoning course. This
book is an open
textbook; it can be
read free online at <http://www.opentextbookstore.com/mathinsociety/>. Editable
versions of the
chapters are*

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available as well.

This textbook on the theory of probability starts from the premise that rather than being a purely mathematical discipline, probability theory is an intimate companion of statistics. The book starts with the basic

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tools, and goes on to cover a number of subjects in detail, including chapters on inequalities, characteristic functions and convergence. This is followed by explanations of the three main subjects in probability: the law

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*of large numbers, the
central limit theorem,
and the law of the
iterated logarithm.*

*After a discussion of
generalizations and
extensions, the book
concludes with an
extensive chapter on
martingales.*

*Algorithm Design
The Data Science*

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Design Manual
Marcy Mathworks
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*The Equation that
Couldn't Be Solved
Introduction to
Tropical Geometry
The Ricci Flow in
Riemannian
Geometry*

An Episodic History
of Mathematics will
acquaint students and

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Marcy Mathworks
Answer Key

readers with
mathematical
language, thought, and
mathematical life by
means of historically
important
mathematical
vignettes. It will also
serve to help
prospective teachers
become more familiar
with important ideas
of in the history of

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mathematics both

classical and

modern. Contained

within are wonderful

and engaging stories

and anecdotes about

Pythagoras and Galois

and Cantor and

Poincaré, which let

readers indulge

themselves in whimsy,

gossip, and learning.

The mathematicians

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treated here were complex individuals who led colorful and fascinating lives, and did fascinating mathematics. They remain interesting to us as people and as scientists. This history of mathematics is also an opportunity to have some fun because the focus in this text is

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also on the
practical getting
involved with the
mathematics and
solving problems.

This book is
unabashedly
mathematical. In the
course of reading this
book, the neophyte
will become involved
with mathematics by
working on the same

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problems that, for
instance, Zeno and

Pythagoras and

Descartes and Fermat

and Riemann worked

on. This is a book to be

read, therefore, with

pencil and paper in

hand, and a calculator

or computer close by.

All will want to

experiment; to try

things; and become a

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part of the
mathematical process.

The present volume
examines the
relationship between
second language
practice and what is
known about the
process of second
language acquisition,
summarising the
current state of second
language acquisition

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theory, drawing
general conclusions
about its application to
methods and materials
and describing what
characteristics
effective materials
should have. The
author concludes that
a solution to language
teaching lies not so
much in expensive
equipment, exotic new

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methods, or sophisticated language analysis, but rather in the full utilisation of the most important resources - native speakers of the language - in real communication.

This book provides eloquent support for the idea that spontaneous neuron

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activity, far from
being mere noise, is
actually the source of
our cognitive abilities.

In a sequence of
"cycles," György
Buzsáki guides the
reader from the
physics of oscillations
through neuronal
assembly organization
to complex cognitive
processing and

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memory storage. His clear, fluid writing-accessible to any reader with some scientific knowledge-is supplemented by extensive footnotes and references that make it just as gratifying and instructive a read for the specialist. The coherent view of a

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single author who has
been at the forefront
of research in this
exciting field, this
volume is essential
reading for anyone
interested in our
rapidly evolving
understanding of the
brain.

String theory says we
live in a ten-
dimensional universe,

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but that only four are
accessible to our
everyday senses.

According to theorists,
the missing six are
curled up in bizarre
structures known as
Calabi-Yau manifolds.
In *The Shape of Inner
Space*, Shing-Tung
Yau, the man who
mathematically
proved that these

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manifolds exist,
argues that not only is
geometry fundamental
to string theory, it is
also fundamental to
the very nature of our
universe. Time and
again, where Yau has
gone, physics has
followed. Now for the
first time, readers will
follow Yau's
penetrating thinking

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on where we've been,
and where

mathematics will take

us next. A fascinating

exploration of a world

we are only just

beginning to grasp,

The Shape of Inner

Space will change the

way we consider the

universe on both its

grandest and smallest

scales.

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Concrete

Mathematics: A

Foundation for

Computer Science

Quantum Field

Theory in a Nutshell

How Not to Be Wrong

Insights from 25 of

Wall Street's Elite

Mostly Harmless

Econometrics

Decomposability of

Tensors

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Praise for the first
and second editions:

"The Copyeditor's
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with valuable
information, good
advice, and helpful
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and experienced
practitioners. It is
comforting to know
that current and

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will be able to turn to
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placing this work,
which fills a huge
gap in the literature,
right beside my
dictionary, and will
highly recommend it
to all my colleagues
and students."

—Alice Levine,
Lecturer, The

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Marcy Mathworks
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for the beginning to
intermediate editor
or author, and even
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editor. An
indispensable
reference tool."

—Kim Hawley,
President, The

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"This is the book that
every teacher of
editing has been
waiting for: thorough,
clear, authoritative,
up-to-date, and
sane." —Beth Luey,
Director, Scholarly
Publishing Program,
Arizona State
University "This
book warms the

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cockles of the
copyediting heart. It
is thorough, useful,
helpful, and smart.
And it fills a huge
vacuum."

—Constance Hale,
author of *Sin and
Syntax* and *Wired
Style* "An excellent
resource. The
Copyeditor's
Handbook should sit

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on every business editor's shelf, next to the in-house style guide." —Erika Henik, Research Publications Manager, Banc of America Securities LLC "The first three chapters alone are worth the cover price. It's a book that acknowledges an

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questions and offers
multiple answers to
most of

them."—Gary

Hernandez,

Technical

Communication "An
excellent textbook to
teach the essentials
of copyediting. An
excellent reference

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work for workplace
writing."—Mark

Armstrong, Business
Communication
Quarterly

"Straightforward,
sound advice for
beginning or
intermediate
copyeditors working
with pencil or
online."—Priscilla S.
Taylor, The Editorial

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Eye "Lays out the
copyeditor's
obligations with
humor, style, and per
spective."—Walter
Pagel, Science
Editor

"Witty, compelling,
and just plain fun to
read . . ." —Evelyn
Lamb, Scientific
American The
Freakonomics of

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math—a math-world superstar unveils the hidden beauty and logic of the world and puts its power in our hands The math we learn in school can seem like a dull set of rules, laid down by the ancients and not to be questioned. In *How Not to Be Wrong*,

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Jordan Ellenberg
shows us how
terribly limiting this
view is: Math isn't
confined to abstract
incidents that never
occur in real life, but
rather touches
everything we
do—the whole world
is shot through with
it. Math allows us to
see the hidden

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structures
underneath the
messy and chaotic
surface of our world.
It's a science of not
being wrong,
hammered out by
centuries of hard
work and argument.
Armed with the tools
of mathematics, we
can see through to
the true meaning of

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information we take
for granted: How
early should you get
to the airport? What
does “public
opinion” really
represent? Why do
tall parents have
shorter children?
Who really won
Florida in 2000? And
how likely are you,
really, to develop

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cancer? How Not to Be Wrong presents the surprising revelations behind all of these questions and many more, using the mathematician's method of analyzing life and exposing the hard-won insights of the academic community to the

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layman—minus the
jargon. Ellenberg
chases

mathematical
threads through a
vast range of time
and space, from the
everyday to the
cosmic,
encountering, among
other things,
baseball,
Reaganomics,

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daring lottery schemes, Voltaire, the replicability crisis in psychology, Italian Renaissance painting, artificial languages, the development of non-Euclidean geometry, the coming obesity apocalypse, Antonin Scalia's views on crime and

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punishment, the
psychology of slime
molds, what

Facebook can and
can't figure out about
you, and the
existence of God.

Ellenberg pulls from
history as well as
from the latest
theoretical
developments to
provide those not

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trained in math with
the knowledge they
need. Math, as
Ellenberg says, is
“an atomic-powered
prosthesis that you
attach to your
common sense,
vastly multiplying its
reach and strength.”
With the tools of
mathematics in
hand, you can

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understand the world
in a deeper, more
meaningful way.

How Not to Be
Wrong will show you
how.

How to Prove It A
Structured
Approach Cambridge
University Press

This edited collection
of chapters,
authored by leading

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experts, provides a complete and essentially self-contained construction of 3-fold and 4-fold klt flips. A large part of the text is a digest of Shokurov's work in the field and a concise, complete and pedagogical proof of the

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existence of 3-fold
flips is presented.

The text includes a
ten page glossary
and is accessible to
students and
researchers in
algebraic geometry.

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Approach
A Guide for Book
Publishing and
Corporate

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Communications
The Copyeditor's
Answer Key
Handbook

Against Democracy
The Story of a
Mathematical Circle
for Preschoolers
*This book is a
captivating account of
a professional
mathematician's
experiences*

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*conducting a math
circle for preschoolers
in his apartment in
Moscow in the 1980s.
As anyone who has
taught or raised young
children knows,
mathematical
education for little kids
is a real mystery.
What are they capable
of? What should they
learn first? How hard
should they work?*

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Should they even "work" at all? Should we push them, or just let them be? There are no correct answers to these questions, and the author deals with them in classic math-circle style: he doesn't ask and then answer a question, but shows us a problem--be it mathematical or

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pedagogical--and describes to us what happened. His book is a narrative about what he did, what he tried, what worked, what failed, but most important, what the kids experienced. This book does not purport to show you how to create precocious high achievers. It is just one person's story

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*about things he tried
with a half-dozen
young children.*

*Mathematicians,
psychologists,
educators, parents,
and everybody
interested in the
intellectual
development in young
children will find this
book to be an
invaluable, inspiring
resource. In the*

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*interest of fostering a
greater awareness
and appreciation of
mathematics and its
connections to other
disciplines and
everyday life, MSRI
and the AMS are
publishing books in
the Mathematical
Circles Library series
as a service to young
people, their parents
and teachers, and the*

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mathematics

profession. Titles in

this series are co-

published with the

Mathematical

Sciences Research

Institute (MSRI).

An original, endlessly

thought-provoking,

and controversial look

at the nature of

consciousness and

identity argues that

the key to

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*understanding selves
and consciousness is
the "strange loop," a
special kind of
abstract feedback
loop inhabiting our
brains.*

*Human beings are
primates, and
primates are political
animals. Our brains,
therefore, are
designed not just to
hunt and gather, but*

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also to help us get ahead socially, often via deception and self-deception. But while we may be self-interested schemers, we benefit by pretending otherwise. The less we know about our own ugly motives, the better - and thus we don't like to talk or even think about the extent of our

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selfishness. This is "the elephant in the brain." Such an introspective taboo makes it hard for us to think clearly about our nature and the explanations for our behavior. The aim of this book, then, is to confront our hidden motives directly - to track down the darker, unexamined corners

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*of our psyches and
blast them with
floodlights. Then,
once everything is
clearly visible, we can
work to better
understand ourselves:
Why do we laugh?
Why are artists sexy?
Why do we brag about
travel? Why do we
prefer to speak rather
than listen? Our
unconscious motives*

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drive more than just our private behavior; they also infect our venerated social institutions such as Art, School, Charity, Medicine, Politics, and Religion. In fact, these institutions are in many ways designed to accommodate our hidden motives, to serve covert agendas alongside their

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"official" ones. The existence of big hidden motives can upend the usual political debates, leading one to question the legitimacy of these social institutions, and of standard policies designed to favor or discourage them. You won't see yourself - or the world - the same

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after confronting the elephant in the brain. A superb standalone novel from the awesome imagination of Iain M. Banks, a master of modern science fiction. It is 4034 AD. Humanity has made it to the stars. Fasson Taak, a Slow Seer at the Court of the Nasqueron Dwellers, will be

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fortunate if he makes it to the end of the year. The Nasqueron Dwellers inhabit a gas giant on the outskirts of the galaxy, in a system awaiting its wormhole connection to the rest of civilisation. In the meantime, they are dismissed as decadents living in a state of highly

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*developed barbarism,
hoarding data without
order, hunting their
own young and
fighting pointless
formal wars.*

*Seconded to a military-
religious order he's
barely heard of - part
of the baroque
hierarchy of the
Mercatoria, the latest
galactic hegemony -
Fassin Taak has to*

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*travel again amongst
the Dwellers. He is in
search of a secret
hidden for half a billion
years. But with each
day that passes a war
draws closer - a war
that threatens to
overwhelm everything
and everyone he's
ever known. As
complex, turbulent
and spectacular as
the gas giant on which*

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it is set, this novel from Iain M. Banks is space opera on a truly epic scale. Praise for Iain M. Banks: 'Epic in scope, ambitious in its ideas and absorbing in its execution'

Independent on Sunday 'Banks has created one of the most enduring and endearing visions of the future' Guardian

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*'Jam-packed with
extraordinary
invention' Scotsman
'Compulsive reading'
Sunday Telegraph
The Culture series:
Consider Phlebas The
Player of Games Use
of Weapons The State
of the Art Excession
Inversions Look to
Windward Matter
Surface Detail The
Hydrogen Sonata*

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*Other books by Iain
M. Banks: Against a
Dark Background
Feersum Endjinn The
Algebraist
Mathematics and
Computation
How I Became a
Quant
Flips for 3-folds and
4-folds
How Mathematical
Genius Discovered
the Language of*

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Symmetry

The Brain That

Changes Itself

A Theory

Revolutionizing

Technology and

Science

Logic concepts

are more

mainstream than

you may realize.

There's logic

every place you

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look and in almost everything you do, from deciding which shirt to buy to asking your boss for a raise, and even to watching television, where themes of such shows as CSI and

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***Numbers
incorporate a
variety of
logistical studies.
Logic For
Dummies
explains a vast
array of logical
concepts and
processes in eas
y-to-understand
language that***

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***make everything
clear to you,
whether you're a
college student
of a student of
life. You'll find
out about: Formal
Logic Syllogisms
Constructing
proofs and
refutations
Propositional and***

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*predicate logic
Modal and fuzzy
logic Symbolic
logic Deductive
and inductive
reasoning Logic
For Dummies
tracks an
introductory logic
course at the
college level.
Concrete, real-*

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***world examples
help you
understand each
concept you
encounter, while
fully worked out
proofs and fun
logic problems
encourage you
students to apply
what you've
learned.***

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***This newly
expanded and
updated second
edition of the
best-selling
classic continues
to take the
"mystery" out of
designing
algorithms, and
analyzing their
efficacy and***

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efficiency.

***Expanding on the
first edition, the
book now serves
as the primary
textbook of
choice for
algorithm design
courses while
maintaining its
status as the
premier practical***

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***reference guide
to algorithms for
programmers,
researchers, and
students. The
reader-friendly
Algorithm Design
Manual provides
straightforward
access to
combinatorial
algorithms***

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***technology,
stressing design
over analysis.***

***The first part,
Techniques,
provides
accessible
instruction on
methods for
designing and
analyzing
computer***

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***algorithms. The
second part,
Resources, is
intended for
browsing and
reference, and
comprises the
catalog of
algorithmic
resources,
implementations
and an extensive***

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***bibliography.
NEW to the
second edition: •
Doubles the
tutorial material
and exercises
over the first
edition • Provides
full online
support for
lecturers, and a
completely***

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***updated and
improved website
component with
lecture slides,
audio and video •
Contains a
unique catalog
identifying the 75
algorithmic
problems that
arise most often
in practice,***

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***leading the
reader down the
right path to
solve them •
Includes several
NEW "war
stories" relating
experiences from
real-world
applications •
Provides up-to-
date links leading***

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***to the very best
algorithm
implementations
available in C,
C++, and Java
Beginning
Topology is
designed to give
undergraduate
students a broad
notion of the
scope of***

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*topology in areas
of point-set,
geometric,
combinatorial,
differential, and
algebraic
topology,
including an
introduction to
knot theory. A
primary goal is to
expose students*

***to some recent
research and to
get them actively
involved in
learning.***

***Exercises and
open-ended
projects are
placed
throughout the
text, making it
adaptable to***

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***seminar-style
classes. The
book starts with a
chapter
introducing the
basic concepts of
point-set
topology, with
examples chosen
to captivate
students'
imagination***

***while illustrating
the need for
rigor. Most of the
material in this
and the next two
chapters is
essential for the
remainder of the
book. One can
then choose from
chapters on map
coloring, vector***

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***fields on
surfaces, the
fundamental
group, and knot
theory. A solid
foundation in
calculus is
necessary, with
some differential
equations and
basic group
theory helpful in***

a couple of chapters. Topics are chosen to appeal to a wide variety of students: primarily upper-level math majors, but also a few freshmen and sophomores as well as graduate

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***students from
physics,
economics, and
computer
science. All
students will
benefit from
seeing the
interaction of
topology with
other fields of
mathematics and***

***science; some
will be motivated
to continue with a
more in-depth,
rigorous study of
topology.***

***An introduction
to computational
complexity
theory, its
connections and
interactions with***

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***mathematics, and
its central role in
the natural and
social sciences,
technology, and
philosophy***

***Mathematics and
Computation
provides a broad,
conceptual
overview of
computational***

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***complexity
theory—the
mathematical
study of efficient
computation.
With important
practical
applications to
computer science
and industry,
computational
complexity***

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theory has evolved into a highly interdisciplinary field, with strong links to most mathematical areas and to a growing number of scientific endeavors. Avi Wigderson takes

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***a sweeping
survey of
complexity
theory,
emphasizing the
field's insights
and challenges.
He explains the
ideas and
motivations
leading to key
models, notions,***

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and results. In particular, he looks at algorithms and complexity, computations and proofs, randomness and interaction, quantum and arithmetic computation, and

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***cryptology and
learning, all as
parts of a***

***cohesive whole
with numerous
cross-influences.***

***Wigderson
illustrates the
immense breadth
of the field, its
beauty and
richness, and its***

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***diverse and
growing
interactions with
other areas of
mathematics. He
ends with a
comprehensive
look at the theory
of computation,
its methodology
and aspirations,
and the unique***

and fundamental ways in which it has shaped and will further shape science, technology, and society. For further reading, an extensive bibliography is provided for all topics covered.

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**Mathematics and
Computation is
useful for**

**undergraduate
and graduate
students in
mathematics,
computer
science, and
related fields, as
well as
researchers and**

teachers in these fields. Many parts require little background, and serve as an invitation to newcomers seeking an introduction to the theory of computation.

Comprehensive

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**coverage of
computational
complexity
theory, and
beyond High-
level, intuitive
exposition, which
brings
conceptual clarity
to this central
and dynamic
scientific**

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discipline

Historical

accounts of the

evolution and

motivations of

central concepts

and models A

broad view of the

theory of

computation's

influence on

science,

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***technology, and
society Extensive
bibliography***

***Reasoning About
a Highly***

Connected World

An Empiricist's

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Theory and

Practice

String Theory

and the Geometry

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***of the Universe's
Hidden
Dimensions***

***Hidden Motives
in Everyday Life
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Praise for How I
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details the quirky world of quantitative analysis through stories told by some of today's most successful quants. For anyone who might have thought otherwise, there are engaging personalities behind all that number crunching!" --Ira Kawaller, Kawaller & Co. and the Kawaller

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Fund "A fun and fascinating read. This book tells the story of how academics, physicists, mathematicians, and other scientists became professional investors managing billions."

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"How I Became a

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Quant should be must reading for all students with a quantitative aptitude. It provides fascinating examples of the dynamic career opportunities potentially open to anyone with the skills and passion for quantitative analysis."

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"Quants"--those who design and implement mathematical models for the pricing of derivatives, assessment of risk, or prediction of market

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As the greater volatility of current financial markets has

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driven investors to seek shelter from increasing uncertainty, the quant revolution has given people the opportunity to avoid unwanted financial risk by literally trading it away, or more specifically, paying someone else to take on the unwanted risk. How I Became a Quant reveals the faces

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behind the quant revolution, offering you the chance to learn firsthand what it's like to be a quant today. In this fascinating collection of Wall Street war stories, more than two dozen quants detail their roots, roles, and contributions, explaining what they do and how they do it,

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as well as outlining the sometimes unexpected paths they have followed from the halls of academia to the front lines of an investment revolution. What do Bach's compositions, Rubik's Cube, the way we choose our mates, and the physics of subatomic particles have in common? All

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are governed by the laws of symmetry, which elegantly unify scientific and artistic principles. Yet the mathematical language of symmetry-known as group theory-did not emerge from the study of symmetry at all, but from an equation that couldn't be solved. For thousands of years mathematicians solved

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progressively more
difficult algebraic
equations, until they
encountered the
quintic equation,
which resisted solution
for three centuries.

Working
independently, two
great prodigies
ultimately proved that
the quintic cannot be
solved by a simple
formula. These

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geniuses, a Norwegian named Niels Henrik Abel and a romantic Frenchman named Évariste Galois, both died tragically young. Their incredible labor, however, produced the origins of group theory. The first extensive, popular account of the mathematics of symmetry and order,

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The Equation That
Couldn't Be Solved is
told not through
abstract formulas but
in a beautifully written
and dramatic account
of the lives and work
of some of the greatest
and most intriguing
mathematicians in
history.

From evil vampires to
a mysterious pack of
wolves, new threats of

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danger and vengeance
test Bella and

Edward's romance in
the second book of the
irresistible Twilight
saga. For Bella Swan,
there is one thing more
important than life
itself: Edward Cullen.
But being in love with
a vampire is even more
dangerous than Bella
could ever have
imagined. Edward has

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already rescued Bella from the clutches of one evil vampire, but now, as their daring relationship threatens all that is near and dear to them, they realize their troubles may be just beginning. Bella and Edward face a devastating separation, the mysterious appearance of dangerous wolves

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roaming the forest in Forks, a terrifying threat of revenge from a female vampire and a deliciously sinister encounter with Italy's reigning royal family of vampires, the Volturi. Passionate, riveting, and full of surprising twists and turns, this vampire love saga is well on its way to literary

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immortality. It's here!
#1 bestselling author

Stephenie Meyer

makes a triumphant
return to the world of
Twilight with the
highly anticipated
companion, Midnight
Sun: the iconic love
story of Bella and
Edward told from the
vampire's point of
view. "People do not
want to just read

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Meyer's books; they want to climb inside them and live there."

-- Time "A literary phenomenon." -- The New York Times "Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain."—Oliver Sacks, MD, author of The Man Who

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Mistook His Wife for a
Hat What is
neuroplasticity? Is it
possible to change
your brain? Norman
Doidge's inspiring
guide to the new brain
science explains all of
this and more An
astonishing new
science called
neuroplasticity is
overthrowing the
centuries-old notion

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that the human brain is immutable, and proving that it is, in fact, possible to change your brain.

Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've

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transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains

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rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and

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education, Dr. Doidge
has written an

immensely moving,

inspiring book that

will permanently alter

the way we look at our

brains, human nature,

and human potential.

The Elephant in the

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An Introduction to
General-Purpose GPU

Programming,
Portable Documents

The Power of
Mathematical

Thinking
Proofs from THE

BOOK
Game theory has

become increasingly
popular among

undergraduate aswell
as business school

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students. This text is the first to provide both a complete theoretical treatment of the subject and a variety of real-world applications, primarily in economics, but also in business, political science, and the law. Game theory has become increasingly popular among undergraduate as well

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as business school students. This text is the first to provide both a complete theoretical treatment of the subject and a variety of real-world applications, primarily in economics, but also in business, political science, and the law. Strategies and Games grew out of Prajit Dutta's

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experience teaching a
course in game theory
over the last six years
at Columbia

University. The book is
divided into three
parts: Strategic Form
Games and Their
Applications,
Extensive Form
Games and Their
Applications, and
Asymmetric
Information Games

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and Their
Applications. The
theoretical topics
include dominance
solutions, Nash
equilibrium, backward
induction, subgame
perfect equilibrium,
repeated games,
dynamic games,
Bayes-Nash
equilibrium,
mechanism design,
auction theory, and

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signaling. An appendix presents a thorough discussion of single-agent decision theory, as well as the optimization and probability theory required for the course. Every chapter that introduces a new theoretical concept opens with examples and ends with a case

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study. Case studies include Global Warming and the Internet, Poison Pills, Treasury Bill Auctions, and Final Jeopardy. Each part of the book also contains several chapter-length applications including Bankruptcy Law, the NASDAQ market, OPEC, and the

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detailed analysis of
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introduction to the
rapidly emerging
interdisciplinary field
of data science. It

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focuses on the
principles

fundamental to

becoming a good data
scientist and the key
skills needed to build
systems for collecting,
analyzing, and
interpreting data. The
Data Science Design
Manual is a source of
practical insights that
highlights what really
matters in analyzing

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data, and provides an intuitive

understanding of how

these core concepts

can be used. The

book does not

emphasize any

particular

programming

language or suite of

data-analysis tools,

focusing instead on

high-level discussion

of important design

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principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an “Introduction to Data Science” course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a

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distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains “War Stories,” offering perspectives on how data science applies in the real world Includes “Homework Problems,” providing

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a wide range of
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Provides a complete
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and online video
lectures at [www.data-
manual.com](http://www.data-manual.com) Provides
“Take-Home
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emphasizing the big-
picture concepts to
learn from each
chapter Recommends

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exciting “Kaggle
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online platform

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“False Starts,”

revealing the subtle
reasons why certain
approaches fail Offers
examples taken from
the data science

television show “The
Quant Shop” (www.quant-shop.com)

Are all film stars

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linked to Kevin
Bacon? Why do the
stock markets rise
and fall sharply on the
strength of a vague
rumour? How does
gossip spread so
quickly? Are we all
related through six
degrees of
separation? There is
a growing awareness
of the complex
networks that pervade

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modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity.

This introductory book on the new science of networks takes an

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interdisciplinary
approach, using
economics, sociology,
computing,
information science
and applied
mathematics to
address fundamental
questions about the
links that connect us,
and the ways that our
decisions can have
consequences for
others.

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The book provides a comprehensive introduction to the many aspects of the subject of basic hypergeometric series. The book essentially assumes no prior knowledge but eventually provides a comprehensive introduction to many important topics. After

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developing a
treatment of
historically important
topics such as the q -
binomial theorem,
Heine's
transformation, the
Jacobi triple product
identity, Ramanujan's
 $1\text{-}\psi\text{-}1$ summation
formula, Bailey's
 $6\text{-}\psi\text{-}6$ summation
formula and the
Rogers-Fine identity,

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the book goes on to delve more deeply into important topics such as Bailey- and WP-Bailey pairs and chains, q -continued fractions, and mock theta functions. There are also chapters on other topics such as Lambert series and combinatorial proofs of basic hypergeometric

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identities. The book could serve as a textbook for the subject at the graduate level and as a textbook for a topic course at the undergraduate level (earlier chapters). It could also serve as a reference work for researchers in the area.

CUDA by Example

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A Complete Proof of
the Differentiable

1/4-Pinching Sphere
Theorem

Topics and Methods
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Second Edition

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on Hamilton's Ricci
flow, beginning
with a detailed

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discussion of the
required aspects of
differential

geometry,
progressing
through existence
and regularity
theory,

compactness
theorems for
Riemannian
manifolds, and
Perelman's

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noncollapsing
results, and
culminating in a

detailed analysis of
the evolution of
curvature, where
recent
breakthroughs of
Böhm and Wilking
and Brendle and
Schoen have led to
a proof of the
differentiable

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1/4-pinching sphere
theorem.

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make the transition
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write proofs. The
book begins with
the basic concepts
of logic and set
theory, to
familiarize students

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with the language
of mathematics and
how it is

interpreted. These
concepts are used
as the basis for a
step-by-step
breakdown of the
most important
techniques used in
constructing
proofs. The author
shows how complex

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proofs are built up from these smaller steps, using detailed 'scratch work' sections to expose the machinery of proofs about the natural numbers, relations, functions, and infinite sets. To give students the opportunity to

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construct their own proofs, this new edition contains over 200 new exercises, selected solutions, and an introduction to Proof Designer software. No background beyond standard high school mathematics is assumed. This

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book will be useful
to anyone

interested in logic
and proofs:

computer
scientists,
philosophers,
linguists, and of
course
mathematicians.

We analyze
coordination of
monetary and

exchange rate
policy in a two-
sector model of a
small open
economy featuring
imperfect
substitution
between domestic
and foreign
financial assets.
Our central finding
is that management
of the exchange

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rate greatly enhances the efficacy of inflation targeting. In a flexible exchange rate system, inflation targeting incurs a high risk of indeterminacy where macroeconomic fluctuations can be driven by self-

fulfilling
expectations.

Moreover, small
inflation shocks
may escalate into
much larger
increases in
inflation ex post.

Both problems
disappear when the
central bank leans
heavily against the
wind in a managed

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float.

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic

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notation, proof
methods; induction,
well-ordering; sets,
relations;
elementary graph
theory; integer
congruences;
asymptotic notation
and growth of
functions;
permutations and
combinations,
counting principles;

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discrete
probability. Further
selected topics may
also be covered,
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induction; state
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Language
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Answer Key
CUDA is a
computing
architecture
designed to
facilitate the
development of
parallel programs.
In conjunction with
a comprehensive
software platform,
the CUDA

Architecture
Page 164/203

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enables
programmers to
draw on the
immense power of
graphics
processing units
(GPUs) when
building high-
performance
applications.
GPUs, of course,
have long been
available for
demanding

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graphics and game applications. CUDA now brings this valuable resource to programmers working on applications in other domains, including science, engineering, and finance. No knowledge of graphics programming is

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required—just the
ability to program

in a modestly
extended version
of C. CUDA by

Example, written
by two senior

members of the
CUDA software
platform team,

shows

programmers how
to employ this new
technology. The

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authors introduce
each area of CUDA
development
through working
examples. After a
concise
introduction to the
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and architecture,
as well as a quick-
start guide to
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In addition to
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book covers
important new
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techniques are
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According to the
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Paul Erdős, God

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proofs in The Book.
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the authors
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proofs," those
which contain
brilliant ideas,
clever connections,
and wonderful
observations,
bringing new

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insight and
surprising
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spinor formalism,
on-shell gluon
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recursion relations
for amplitudes
with complex
momenta, and the
hidden connection
between Yang-
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Einstein gravity.

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Zee also provides
added exercises,
explanations, and
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accessible and
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New Moon

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Graduate Course

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Brain

Math from Three
to Seven

*A bracingly
provocative challenge
to one of our most
cherished ideas and
institutions Most
people believe
democracy is a
uniquely just form of
government. They
believe people have
the right to an equal*

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share of political power. And they believe that political participation is good for us—it empowers us, helps us get what we want, and tends to make us smarter, more virtuous, and more caring for one another. These are some of our most cherished ideas about democracy. But Jason

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Brennan says they are all wrong. In this trenchant book, Brennan argues that democracy should be judged by its results—and the results are not good enough. Just as defendants have a right to a fair trial, citizens have a right to competent government. But

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democracy is the rule of the ignorant and the irrational, and it all too often falls short. Furthermore, no one has a fundamental right to any share of political power, and exercising political power does most of us little good. On the contrary, a wide range of social science research shows that

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*political participation
and democratic
deliberation actually
tend to make people
worse—more irrational,
biased, and mean.
Given this grim
picture, Brennan
argues that a new
system of government
—epistocracy, the rule
of the
knowledgeable—may
be better than*

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*democracy, and that
it's time to experiment
and find out. A*

*challenging critique of
democracy and the
first sustained
defense of the rule of
the knowledgeable,
Against Democracy is
essential reading for
scholars and students
of politics across the
disciplines. Featuring
a new preface that*

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situates the book within the current political climate and discusses other alternatives beyond epistocracy, Against Democracy is a challenging critique of democracy and the first sustained defense of the rule of the knowledgeable. Tropical geometry is a combinatorial shadow

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*of algebraic geometry,
offering new*

*polyhedral tools to
compute invariants of
algebraic varieties. It
is based on tropical
algebra, where the
sum of two numbers
is their minimum and
the product is their
sum. This turns
polynomials into
piecewise-linear
functions, and their*

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zero sets into polyhedral complexes. These tropical varieties retain a surprising amount of information about their classical counterparts. Tropical geometry is a young subject that has undergone a rapid development since the beginning of the 21st century. While

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*establishing itself as
an area in its own
right, deep
connections have
been made to many
branches of pure and
applied mathematics.
This book offers a self-
contained introduction
to tropical geometry,
suitable as a course
text for beginning
graduate students.
Proofs are provided*

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*for the main results,
such as the*

Fundamental

*Theorem and the
Structure Theorem.*

*Numerous examples
and explicit
computations*

*illustrate the main
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