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A deep understanding
of prime numbers is
one of the great
challenges in

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mathematics. In this new edition, fundamental theorems, challenging open problems, and the most recent computational records are presented in a language without secrets. The impressive wealth of material and

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references will make this book a favorite companion and a source of inspiration to all readers. Paulo Ribenboim is Professor Emeritus at Queen's University in Canada, Fellow of the Royal Society of Canada, and recipient of the George Pólya Award of the

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America. He is the author of 13 books and more than 150 research articles. From the reviews of the First Edition: Number Theory and mathematics as a whole will benefit from having such an accessible book

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exposing advanced material. There is no question that this book will succeed in exciting many new people to the beauty and fascination of prime numbers, and will probably bring more young people to research in these areas. (Andrew Granville,

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Zentralblatt)

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Today, herbicide-resistant weeds dominate research and development efforts in the discipline of weed science. The incidence, management challenges, and cost of multiple herbicide-resistant weed

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populations are
continually

increasing worldwide.

Crop varieties with multiple herbicide-resistance traits are being rapidly adopted by growers and land managers to keep ahead of the weed resistance tsunami.

This Special Issue of
Plants comprises

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papers that describe the current status and future outlook of herbicide resistance research and development in weedy and domestic plants, with topics covering the full spectrum from resistance mechanisms to resistance management. The

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unifying framework
for this Special issue
is the challenge posed
to all of the
contributing authors:
What are the
(potential)
implications for
herbicide resistance
management?

The world's greatest
mental mathematical
magician takes us on

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a spellbinding journey through the wonders of numbers (and more) "Arthur Benjamin . . . joyfully shows you how to make nature's numbers dance." -- Bill Nye (the science guy) The Magic of Math is the math book you wish you had in school. Using

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a delightful
assortment of
examples-from ice-
cream scoops and
poker hands to
measuring mountains
and making magic
squares-this book
revels in key
mathematical fields
including arithmetic,
algebra, geometry,
and calculus, plus

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Fibonacci numbers, infinity, and, of course, mathematical magic tricks. Known throughout the world as the "mathemagician," Arthur Benjamin mixes mathematics and magic to make the subject fun, attractive, and easy to understand for math

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The Quest to
Rediscover the
Forgotten

Mathematical Genius
Who Changed the
World

Bulletin of the
Institute of
Combinatorics and
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4th International
Conference, Porto,

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Portugal, June 21-23,
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2000, Selected Papers
Math
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Algebra

*Did you know
that it's
easier to add
and subtract
from left to
right, rather
than the other
way round? And*

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*that you can be
taught to*

*square a three-
digit number in
seconds? In*

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*two
mathematicians
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tricks for
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incredible
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and other feats
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to figuring out
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(or how much
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how to solve*

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sudoku faster.

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the medieval
genius whose
1202 book
changed the
course of
mathematics in
the West and
helped bring on
the modern era.
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Pólya's method of problem solving, aids students in their transition to higher-level mathematics. It begins by providing a great deal of guidance on how to approach

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*definitions,
examples, and
theorems in
mathematics and
ends by
providing
projects for
independent
study. Students
will follow
Pólya's four
step process:
learn to*

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*understand the
problem; devise
a plan to solve
the problem;
carry out that
plan; and look
back and check
what the
results told
them.*

*The Six-
Cornered
Snowflake*

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Oahspe

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*mathematics and
computer science*

*students, this book is
an excellent*

*introduction to a lot
of problems of
discrete*

*mathematics. It
discusses a number
of selected results
and methods, mostly
from areas of*

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combinatorics and graph theory, and it uses proofs and problem solving to help students understand the solutions to problems. Numerous examples, figures, and exercises are spread throughout the book.

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This book, which is based on Pólya's method of problem solving, aids students in their transition from calculus (or precalculus) to higher-level mathematics. The book begins by providing a great

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*deal of guidance on
how to approach
definitions,
examples, and
theorems in
mathematics and
ends with suggested
projects for
independent study.
Students will follow
Pólya's four step
approach: analyzing*

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*the problem,
devising a plan to
solve the problem,
carrying out that
plan, and then
determining the
implication of the
result. In addition to
the Pólya approach
to proofs, this book
places special
emphasis on reading*

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*proofs carefully
and writing them
well. The authors
have included a
wide variety of
problems, examples,
illustrations and
exercises, some with
hints and solutions,
designed specifically
to improve the
student's ability to*

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*read and write
proofs. Historical
connections are
made throughout
the text, and
students are
encouraged to use
the rather extensive
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begin making
connections of their
own. While standard*

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future courses in
algebra, this book
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those wanting to
bridge the gap
between the*

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*standard course in
calculus and one in
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to point out that
mathematics is
universal. In spite of
this, most people
continue to view it as
either mundane
(balancing a
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mysterious
(*cryptography*). This
fifth volume of the
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that view by showing
that mathematics is
indeed found
everywhere-in
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lives. Here is some

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key to cracking the
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*dimensional
structure of the
proteins produced
from that code.*

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are reaching higher
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omputing, by Ia
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humans aren't
exposed to
toxins in our e
nvironment—b
e it at home,
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workplace. But
what about
those toxic
places and
items that**

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marked? Why
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substances
and not
others? The
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Toxic consider
the exposure**

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the United
States, Canada
and Japan to
radiation,
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waste, and
pesticides.
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shows that
appeals to
uncertainty**

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social inaction
even when
evidence, e.g.
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between
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warming,
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influential
scientists,
engineers and
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deliberately
"manufactured
doubt" and
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often no
deliberate
deception. We
tend to think
that if we can't
see
contamination
and experts
deem it safe,
then we are
okay. Yet,**

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**having
knowledge
about the
uncertainty
behind expert
claims can
awaken us
from a false
sense of
security and
alert us to
decisions and**

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**practices that
may in fact
cause harm.**

**Julia is a well-
constructed
programming
language with
fast execution
speed,
eliminating
the classic
problem of**

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**performing
analysis in one
language and
translating it
for
performance
into a second.
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help you
develop and
enhance your
programming**

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to solve real-
world**

**automation
challenges.**

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starts off with
a refresher on
installing and
running Julia
on different
platforms.**

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**works using
simple**

**statistics and
analytics, and
discover Julia's
speed, its real
strength,
which makes it
particularly
useful in
highly
intensive**

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tasks and
observe how
Julia can
cooperate with
external
processes in
order to
enhance
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visualization.**

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will look into
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**programming
and learn how
it adds great
power to the
language and
establish
networking
and
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lambdas, using
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shows how you
can use it to make
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modeling stock
prices, nonlinear
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*last part explains
how to use R to
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complex
computations can
usually be done
without too much
trouble. Datasets
used in the text are
available in an R
package
(CASdatasets).*

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Pell and

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*numbers, like the
well-known*

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continue to intrigue
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fields of analysis,
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various areas of
discrete*

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*mathematics,
number theory,
graph theory, linear
algebra, and
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and Pell–Lucas
numbers belong to
an extended
Fibonacci family as
a powerful tool for
extracting
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interesting properties of a vast array of number sequences. A key feature of this work is the historical flavor that is interwoven into the extensive and in-depth coverage of the subject. An interesting array of

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*applications to
combinatorics,
graph theory,
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mathematical
puzzles is another
highlight engaging
the reader. The
exposition is user-
friendly, yet
rigorous, so that a*

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consisting of
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professionals,
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numbers. They
crop up in chess,
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behind Catalan numbers, Koshy includes short biographies of the prominent mathematicians who have worked with the numbers.

"In 1611, Kepler wrote an essay wondering why snowflakes always had

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**perfect, sixfold
symmetry. It's a
simple enough
question, but
one that no one
had ever asked
before and one
that couldn't
actually be
answered for
another three
centuries. Still,
in trying to work
out an answer,**

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Kepler raised some fascinating questions about physics, math, and biology, and now you can watch in wonder as a great scientific genius unleashes the full force of his intellect on a seemingly trivial question,

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**complete with
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put it all in persp
ective."—io9,
from their list
"10 Amazing
Science Books
That Reveal The
Wonders Of The
Universe" When
snow began to
fall while he was
walking across**

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**the Charles
Bridge in Prague
late in 1610, the
eminent
astronomer
Johannes Kepler
asked himself
the following
question: Why do
snowflakes,
when they first
fall, and before
they are
entangled into**

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**larger clumps,
always come
down with six
corners and with
six radii tufted
like feathers? In
his effort to
answer this
charming and ne
ver-before-asked
question about
snowflakes,
Kepler delves
into the nature**

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**of beehives,
peapods,
pomegranates,
five-petaled
flowers, the
spiral shape of
the snail's shell,
and the
formative power
of nature itself.
While he did not
answer his
original
question—it**

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**remained a
mystery for
another three
hundred
years—he did
find an occasion
for deep and
playful thought.
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endnotes in this
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**users require to
run and support
a business. This
widens the scope
of any
availability
design far
beyond hardware
and software. It
also increases t
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Perspectives on
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Exposure, and**

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*Diaconis and Ron
Graham provide easy,
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to set up the effect
and offering tips on
what to say and do
while performing it.*

*Each card trick
introduces a new
mathematical idea,
and varying the tricks*

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*in turn takes readers
to the very threshold
of today's*

*mathematical
knowledge. For
example, the
Gilbreath principle--a
fantastic effect where
the cards remain in
control despite being
shuffled--is found to
share an intimate
connection with the*

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Mandelbrot set. Other card tricks link to the mathematical secrets of combinatorics, graph theory, number theory, topology, the Riemann hypothesis, and even Fermat's last theorem.

Diaconis and Graham are mathematicians as well as skilled

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*performers with
decades of
professional
experience between
them. In this book
they share a wealth of
conjuring lore,
including some
closely guarded
secrets of legendary
magicians. Magical
Mathematics covers
the mathematics of*

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*juggling and shows
how the I Ching
connects to the
history of probability
and magic tricks both
old and new. It tells
the stories--and
reveals the best
tricks--of the
eccentric and brilliant
inventors of
mathematical magic.*

Magical Mathematics

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exposes old gambling secrets through the mathematics of shuffling cards, explains the classic street-gambling scam of three-card monte, traces the history of mathematical magic back to the thirteenth century and the oldest mathematical trick--and much

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more"-

Let's face it, teaching secondary math can be hard. So much about how we teach math today may look and feel different from how we learned it. Teaching math in a student-centered way changes the role of the teacher from one who traditionally

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*"delivers knowledge"
to one who fosters
thinking. Most
importantly, we must
ensure our practice
gives each and every
student the
opportunity to learn,
grow, and achieve at
high levels, while
providing
opportunities to
develop their agency*

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and authority in the classroom which results in a positive math identity.

Whether you are a brand new teacher or a veteran, if you find teaching math to be quite the challenge, this is the guide you want by your side.

Designed for just-in-time learning and

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*support, this practical
resource gives you
brief, actionable
answers to your most
pressing questions
about teaching
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*Written by four
experienced math
educators
representing diverse
experiences, these
authors offer the*

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practical advice they wish they received years ago, from lessons they've learned over decades of practice, research, coaching, and through collaborating with teams, teachers and colleagues—especially new teachers—every day. Questions and

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*answers are
organized into five
areas of effort that
will help you most
thrive in your
secondary math
classroom: How do I
build a positive math
community? How do
I structure, organize,
and manage my math
class? How do I
engage my students in*

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*math? How do I help
my students talk*

*about math? How do
I know what my*

*students know and
move them forward?*

*Woven throughout,
you'll find helpful*

*sidebar notes on
fostering identity and*

*agency; access and
equity; teaching in*

different settings; and

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for deeper learning.*

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question—Where do I
go from here?— offers
guidance for growing
your practice over
time. Strive to become
the best math
educator you can be;
your students are
counting on it! What
will be your first step*

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on the journey?

Recipient of the

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Association of

America's

Beckenbach Book

Prize in 2006!

Mathematics is the

science of patterns,

and mathematicians

attempt to understand

these patterns and

discover new ones

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using a variety of tools. In Proofs That Really Count, award-winning math professors Arthur Benjamin and Jennifer Quinn demonstrate that many number patterns, even very complex ones, can be understood by simple counting arguments.

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The book emphasizes numbers that are often not thought of as numbers that count: Fibonacci Numbers, Lucas Numbers, Continued Fractions, and Harmonic Numbers, to name a few. Numerous hints and references are given for all chapter

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exercises and many chapters end with a list of identities in need of combinatorial proof. The extensive appendix of identities will be a valuable resource. This book should appeal to readers of all levels, from high school math students to professional

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mathematicians.

*The Mathematics
Teacher*

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*Discrete Mathematics
Fibonacci's*

Arithmetic Revolution

*The Problems They
Solved, Why These
Are Important, and*

*What You Should
Know about Them*

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The Magic of Math

First published in

1202, Fibonacci 's

Liber Abaci was one
of the most important
books on

mathematics in the
Middle Ages,

introducing Arabic
numerals and

methods throughout
Europe. This is the

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first translation into a modern European language, of interest not only to historians of science but also to all mathematicians and mathematics teachers interested in the origins of their methods.

This book deals with applications of game

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theory in a wide variety of disciplines. Surfaces are among the most common and easily visualized mathematical objects, and their study brings into focus fundamental ideas, concepts, and methods from geometry, topology,

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complex analysis, Morse theory, and group theory. At the same time, many of those notions appear in a technically simpler and more graphic form than in their general 'natural' settings. The first, primarily expository, chapter introduces

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many of the principal
actors - the round
sphere, flat torus,
Möbius strip, Klein
bottle, elliptic plane,
etc. - as well as
various methods of
describing surfaces,
beginning with the
traditional
representation by
equations in three-

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dimensional space,
proceeding to
parametric
representation, and
also introducing the
less intuitive, but
central for our
purposes,
representation as
factor spaces. It
concludes with a
preliminary

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discussion of the
metric geometry of
surfaces, and the
associated isometry
groups. Subsequent
chapters introduce
fundamental
mathematical
structures -
topological,
combinatorial
(piecewise linear),

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smooth, Riemannian
(metric), and
complex - in the
specific context of
surfaces. The focal
point of the book is
the Euler
characteristic, which
appears in many
different guises and
ties together concepts
from combinatorics,

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algebraic topology,
Morse theory,
ordinary differential
equations, and
Riemannian
geometry. The
repeated appearance
of the Euler
characteristic
provides both a
unifying theme and a
powerful illustration

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of the notion of an invariant in all those theories. The assumed background is the standard calculus sequence, some linear algebra, and rudiments of ODE and real analysis. All notions are introduced and discussed, and

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virtually all results
proved, based on this
background. This
book is a result of the
MASS course in
geometry in the fall
semester of 2007.

Abstracts of Papers
Presented to the
American
Mathematical Society
What's Happening in

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Numbers, and the
Golden Section

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Top mathematicians
talk about their work
and lives Fascinating
Mathematical
People is a collection
of informal
interviews and
memoirs of sixteen
prominent members
of the mathematical
community of the
twentieth century,

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many still active.

The candid portraits
collected here

demonstrate that

while these men and

women vary widely

in terms of their

backgrounds, life

stories, and

worldviews, they all

share a deep and

abiding sense of

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wonder about
mathematics.

Featured here—in
their own
words—are major
research
mathematicians
whose cutting-edge
discoveries have
advanced the
frontiers of the field,
such as Lars Ahlfors,

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Mary Cartwright,
Dusa McDuff, and
Atle Selberg. Others
are leading
mathematicians who
have also been
highly influential as
teachers and
mentors, like Tom
Apostol and Jean
Taylor. Fern Hunt
describes what it was

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like to be among the first black women to earn a PhD in mathematics. Harold Bacon made trips to Alcatraz to help a prisoner learn calculus. Thomas Banchoff, who first became interested in the fourth dimension while reading a

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Captain Marvel comic, relates his fascinating friendship with Salvador Dal í and their shared passion for art, mathematics, and the profound connection between the two. Other mathematical people found here are Leon

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Bankoff, who was also a Beverly Hills dentist; Arthur Benjamin, a part-time professional magician; and Joseph Gallian, a legendary mentor of future mathematicians, but also a world-renowned expert on

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the Beatles. This beautifully illustrated collection includes many photographs never before published, concise introductions by the editors to each person, and a foreword by Philip J. Davis.

A mathematician ' s

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ten-year quest to tell
Fibonacci ' s story

In 2000, Keith
Devlin set out to
research the life and
legacy of the
medieval
mathematician
Leonardo of Pisa,
popularly known as
Fibonacci, whose
book Liber abbaci,

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or the “ Book of
Numbers Hmc
Math
Calculation, ”

introduced modern
arithmetic to the
Western world.

Although most
famous for the
Fibonacci
numbers—which, it
so happens, he
didn ’ t discover—Fi
bonacci ’ s greatest

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contribution was as an expositor of mathematical ideas at a level ordinary people could understand. Yet Fibonacci was forgotten after his death, and it was not until the 1960s that his true achievements were

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finally recognized.
Drawing on the
diary he kept of his
quest, Devlin
describes the false
starts and
disappointments, the
unexpected turns,
and the occasional
lucky breaks he
encountered in his
search. Fibonacci

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Numbers Hmc
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helped to revive the
West as the cradle of
science, technology,
and commerce, yet
he vanished from the
pages of history.

This is Devlin ' s
search to find him.

This primer is a
comprehensive
collection of
analytical and

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numerical

techniques that can

be used to extract

the non-perturbative

physics of quantum

field theories. The

intriguing

connection between

Euclidean Quantum

Field Theories

(QFTs) and

statistical mechanics

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can be used to apply

Markov Chain

Monte Carlo

(MCMC) methods to

investigate strongly

coupled QFTs. The

overwhelming

amount of reliable

results coming from

the field of lattice

quantum

chromodynamics

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stands out as an excellent example of MCMC methods in QFTs in action.

MCMC methods have revealed the non-perturbative phase structures, symmetry breaking, and bound states of particles in QFTs.

The applications

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also resulted in new outcomes due to cross-fertilization with research areas such as AdS/CFT correspondence in string theory and condensed matter physics. The book is aimed at advanced undergraduate students and

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graduate students in physics and applied mathematics, and researchers in MCMC simulations and QFTs. At the end of this book the reader will be able to apply the techniques learned to produce more independent and novel research

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in the field.

The Man of
Numbers

The Little Book of
Bigger Primes

Solving for x and
Figuring Out Why
Computational

Actuarial Science
with R

Interviews and
Memoirs

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Vector and Parallel
Processing -
VECPAR 2000

The original title for this work was “Mathematical Literacy, What Is It and Why You Need it”. The current title reflects that there can be no

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**real learning in
any subject,
unless questions
of who, what,
when, where,
why and how are
raised in the
minds of the
learners. The
book is not a
mathematical
text, and there
are no assigned**

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**exercises or
exams. It is
written for
reasonably
intelligent and
curious
individuals, both
those who value
mathematics,
aware of its many
important
applications and
others who have**

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been

inappropriately

exposed to

mathematics,

leading to

indifference to

the subject, fear

and even

loathing. These

feelings are all

consequences of

meaningless

presentations,

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**drill, rote
learning and
being lost as the
purpose of what
is being studied.
Mathematics
education needs
a radical reform.
There is more
than one way to
accomplish this.
Here the author
presents his**

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approach of wrapping mathematical ideas in a story. To learn one first must develop an interest in a problem and the curiosity to find how masters of mathematics have solved them. What is

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**necessary to be
mathematically
literate? It's not
about solving
algebraic
equations or
even making a
geometric proof.
These are
valuable skills
but not evidence
of literacy. We
often seek**

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**answers but
learning to ask
pertinent
questions is the
road to
mathematical
literacy. Here is
the good news:
new
mathematical
ideas have a way
of finding
applications. This**

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Meth

is known as “the unreasonable effectiveness of mathematics.”

As a text for an undergraduate mathematics course for nonmajors, Mathematics and Politics requires no prerequisites in either area

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**while the
underlying
philosophy
involves
minimizing
algebraic
computations and
focusing instead
on some
conceptual
aspects of
mathematics in
the context of**

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**important real-
world questions
in political
science. Five
major topics are
covered including
a model of
escalation, game
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conflict, yes-no
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**and social choice.
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introductory
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co-author, Allison
Pacelli, and two
new chapters on
"Fairness" and**

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"More Fairness."

**The examples
and the exercises
have been
updated and
enhanced
throughout.**

**Reviews from
first edition: This
book is well
written and has
much math of
interest. While it**

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**is pitched at a
non-math**

**audience there is
material here
that will be new
and interesting
to the readers...**

**-Sigact News For
mathematicians,
Taylor's book
shows how the
social sciences
make use of**

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**mathematical
thinking, in the
form of axiomatic
systems, and
offers a chance to
teach this kind of
thinking to our
students. - The
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writing is crisp
and the sense of**

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**excitement about
learning
mathematics is
seductive. The
political conflict
examples are
well thought out
and clear.**

-Michael C.

Munger

**Inevitably Toxic
A Modern Primer
Math Horizons**

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**A New Bible in
the Words of
Jehovih and His
Angel
Embassadors**