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Simply Explained
Relativity
Martin Gardner
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Martin
Gardner

Authoritative
reference treats the
formation, structure,
optical properties,
and uses of thin
solid films,

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emphasizing causes
of their unusual
qualities. 162

figures. 19 tables.

1955 edition.

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Corporation

One of the subject's

clearest, most

entertaining

introductions offers

lucid explanations

of special and

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general theories of
relativity, gravity,
and spacetime,
models of the
universe, and more.

100 illustrations.

Martin Gardner's

Mathematical

Games columns in

Scientific American

inspired and

entertained several

generations of

mathematicians and

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scientists. Gardner
in his crystal-clear
prose illuminated
corners of
mathematics,
especially
recreational
mathematics, that
most people had no
idea existed. His
playful spirit and
inquisitive nature
invite the reader into
an exploration of

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beautiful
mathematical ideas
along with him.

These columns were
both a revelation
and a gift when he
wrote them; no
one--before
Gardner--had written
about mathematics
like this. They
continue to be a
marvel. This volume,
first published in

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1975, contains columns published in the magazine from 1965-1967. This 1989 MAA edition contains a foreword by John H. Conway and a postscript and extended bibliography added by Gardner for this edition.

Optical Properties of
Thin Solid Films

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On the Wild Side
Fractal Music,
Hypercards and
More...

Penrose Tiles to
Trapdoor
Ciphers...and the
Return of Dr. Matrix
Twenty Experiments
that Changed our
View of the World
The New Age
This lively, stimulating
account of non-

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Euclidean geometry by a noted mathematician covers matrices, determinants, group theory, and many other related topics, with an emphasis on the subject's novel, striking aspects. 1955 edition.

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solving addicts. Grew out of a collaboration between Bob Tappay and Martin Gardner to enliven the learning of mathematics.

Introductory Graph Theory

Entertaining

Mathematical Puzzles

Wheels, Life and

Other Mathematical

Amusements

The Extraterrestrial

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Life Debate,
Martin Gardner
1750-1900

Mathematical
Recreations from
Scientific
American
Magazine
Classic Puzzles,
Paradoxes, and
Problems : Number
Theory, Algebra,
Geometry, Probability,
Topology, Game
Theory, Infinity, and

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Other Topics of
Recreational
Mathematics
*An excellent
introduction to
the study of
inviscid airflow
using potential
theory, this book
is a longtime
university text
and reference and*

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a classic in its field. This edition is a complete reprint of the revised 1966 edition, which brings the subject up to date.

Includes a wealth of problems, illustrations, and cross-references.

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*Not since his
Science: Good,
Bad and Bogus
has there been
such a bountiful
offering of the
delightful
combination of
drollery and horse
sense that has
made Martin
Gardner the*

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*undisputed dean
of the critics of
pseudoscience. In
The New Age:
Notes of a Fringe-
Watcher, Gardner
confronts new
trends in
pseudoscience
and the
paranormal: from
the much-*

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publicized past-life exploits of Shirley MacLaine to the latest in perpetual-motion machines, from prime-time preachers to the channeling mania of the past few years. Many of these pieces were

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*published in
Gardner's column
in the Skeptical
Inquirer. Others
appeared in the
New York Times,
The New York
Review of Books,
Discover
magazine, and
other
publications.*

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Gardner has added forewords and/or afterwords to most of the chapters to give background, to bring recent developments to light, or to include responses from his critics. Destined to

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*be a classic of
skeptical
literature, this
book will be a
welcome treat for
Gardner fans and
a rewarding
adventure for his
new readers... .
invaluable insight
into all kinds of
pseudoscience,*

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*phony religious
claims, new age
nonsense, and
many other
irrational
concepts.*

*Independent
Thinking*

*Review Martin
Gardner, the
creator of
Scientific*

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*American's
Mathematical
Games column,
which he wrote
for more than
twenty-five years,
is the author of
almost one
hundred books,
including The
Annotated Ancient
Mariner, Martin*

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*Gardner's
Favorite Poetic
Parodies, From
the Wandering
Jew to William F.
Buckley Jr., and
Science: Good,
Bad and Bogus.
For many years
he was also a
contributing
editor to the*

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*Skeptical
Inquirer.*

*Superb
introduction for
nonspecialists
covers Feynman
diagrams, quasi
particles, Fermi
systems at finite
temperature,
superconductivity,
vacuum*

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*amplitude,
Dyson's equation,
ladder*

*approximation,
and more. "A
great delight." —
Physics Today.
1974 edition.*

*Martin Gardner's
Mathematical
Games columns in
Scientific*

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American inspired
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*and entertained
several*

*generations of
mathematicians
and scientists.*

*Gardner in his
crystal-clear
prose illuminated
corners of
mathematics,
especially*

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*recreational
mathematics, that
most people had
no idea existed.
His playful spirit
and inquisitive
nature invite the
reader into an
exploration of
beautiful
mathematical
ideas along with*

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him. These columns were both a revelation and a gift when he wrote them; no one--before Gardner--had written about mathematics like this. They continue to be a marvel. This

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*volume, first
published in 1979,
contains columns
published in the
magazine from
1968-1971. This
1992 MAA edition
contains a
foreword by
Donald Knuth and
a postscript and
extended*

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*bibliography
added by Gardner
for this edition.*

*Elements of
Relativity Theory
Firsthand
Accounts from
Galileo to Einstein
Mental Magic*

*The Magic of
Numbers*

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*The Whys of a
Philosophical
Scrivener*

Martin Gardner's
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Games columns in
Scientific
American inspired
and entertained
several
generations of
mathematicians

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and scientists.
Gardner in his
crystal-clear prose
illuminated
corners of
mathematics,
especially
recreational
mathematics, that
most people had
no idea existed.
His playful spirit

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and inquisitive nature invite the reader into an exploration of beautiful mathematical ideas along with him. These columns were both a revelation and a gift when he wrote them; no

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Gardner--had
written about
mathematics like
this. They
continue to be a
marvel. This
volume was
originally
published in 1989
and contains
columns from

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published
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1976-1978. This
1997 MAA edition
contains three new
columns written
specifically for this
volume including
the resurrection of
the lamented Dr.
Matrix.

Fair, witty
appraisal of

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cranks, quacks,
and quackeries of
science and
pseudoscience:
hollow earth,
Velikovsky, orgone
energy, Dianetics,
flying saucers,
Bridey Murphy,
food and medical
fads, and much
more.

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"I have always been intrigued by fringe science," writes Martin Gardner in the preface to this book, "perhaps for the same reason that I enjoy freak shows and circuses.

Pseudoscientists,

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especially the extreme cranks, are fascinating creatures for psychological study. Moreover, I have found that one of the best ways to learn something about any branch of science is to find

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out where its crackpots go wrong." A unique combination of horse sense and drollery has made Martin Gardner the undisputed dean of the critics of pseudoscience. This bountiful collection of

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essays and articles
Martin Gardner
will be

wholeheartedly

greeted by

Gardner's fans, as

well as by new

readers. This

collection of

articles - many of

which first

appeared in the

Skeptical Inquirer,

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the New York
Review of Books,
and Free Inquiry -
explores
pseudoscience and
strange religious
beliefs with the
author's
trademark wit and
verve. Destined to
be a classic of
skeptical

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literature, this book covers a wide range of topics - including UFOs, rainmaking, ghosts, the Big Bang, ESP, Oral Roberts, as well as the early history of spiritualism and today's bizarre "trance

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channeling" cults.
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development of

logic machines

from diagrams of

logical statements

to modern

computers and

discusses the

fundamentals of

mathematical logic

Fads and Fallacies

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Science

Mathematics for
the
Nonmathematician
Second Edition
Searching for
Sacred Metaphors
in a Post-Einstein
World
Time Travel and
Other

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Bewilderments
Logic Machines
and Diagrams
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work on
embryology of the
chick, Galileo's
discovery of the

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law of descent,
Newton's
experiment on
nature of colors,
more.

Detailed, scholarly
study examines
the ideas that
developed
between 1750 and
1900 regarding the
existence of

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intelligent
extraterrestrial life,
including those of
Kant, Herschel,
Voltaire, Lowell,
many others. 16
illustrations.

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draw valid
conclusions from
numerical data
using logic and the

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philosophy of
statistics rather
than complex
formulae.

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averages and
scatter,
investigation
design, more.

Problems,
solutions.

The Whys of a

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Scrivener

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immortality, and far
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beyond, Gardner

challenges the

discerning reader

with fundamental

questions of

classical

philosophy and

life's greater

meanings.

Recalling such

philosophers was

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Wittgenstein and
Arendt, The Whys
of Philosophical
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embodies Martin
Garner's
unceasing interest
and joy in the
impenetrable
mysteries of life.
More Notes of a
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Blackberries?
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presents a
selection of pieces
from his Scientific
American
"Mathematical
Games" column,
presenting puzzles
and concepts that
range from**

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geometrical games
to the meaning of
M.C. Escher's
artwork.**

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work on the
physics of
lightning covers
phenomena,
terminology,
measurement,
photography,**

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thunder, and more,
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Games columns in
Scientific
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and entertained
several generations
of mathematicians**

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and scientists.
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**Gardner in his
crystal-clear prose
illuminated
corners of
mathematics,
especially
recreational
mathematics, that
most people had no
idea existed. His
playful spirit and
inquisitive nature
invite the reader**

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were both a
revelation and a
gift when he wrote
them; no
one--before
Gardner--had
written about
mathematics like
this. They continue**

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1988 edition and
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published from
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Picanumba has
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tricks up his sleeve
— and he's willing
to show junior
mathemagicians
how to predict the**

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The Unexpected

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phenomena
involving light in
semiconductors,
emphasizing
modern applications
in semiconductor

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escence,

photodetectors,

photoconductors,

photoemitters,

polarization effects,

absorption

spectroscopy, more.

Numerous

problems. 339

illustrations.

The basic concepts

of relativity theory

are conveyed

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These columns were both a revelation and a gift when he wrote them; no one--before

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Gardner--had written about mathematics like this. They continue to be a marvel. This is the original 1992 edition and contains columns published from 1978-1979. Another Fine Math You've Got Me Into. .

Judaism, Physics and God

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Optical Processes in

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Lightning

Mathematical Circus

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Scientific

American

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and scientists.
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mathematics,
especially
recreational
mathematics,
that most people
had no idea
existed. His

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and inquisitive
nature invite
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of beautiful
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revelation and a
gift when he
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includes three
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differential
calculus,
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theory, much
more. Exercises
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simple
instructions for
100 illustrated
experiments.

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experiments
illuminate
principles
related to
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physiology,
psychology,
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topology,
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areas.

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Hexagrams,
Little Red
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Fringe-Watcher

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instructions and
nearly 200
simple diagrams
show beginners*

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cards vanish and
reappear, get
coins to pass
through solid
objects, make
articles
mysteriously
travel from one
location to
another, and
more.

Internationally
acclaimed

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science writer
Martin Gardner
contributes a
regular column
titled "The
Skeptical Eye"
for the journal
Skeptical
Inquiry. *Weird
Water and Fuzzy
Logic* is a
collection of
this material,
with a wide

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*range of topics
including the
"Klingon"
artificial
language,
science blunders
by famous
writers, recent
attacks on the
Big Bang theory,
and the
influence of The
Course of
Miracles and*

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Meditation.*

*Superb,
stimulating
account of
origins of
mathematical
thought and
development of
numerical
theory. Probes
the work of
Pythagoras,
Galileo,*

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*Einstein, and
others,
exploring
influence of
"number magic"
on religion,
philosophy,
science,
mathematics.
Clear, lively
style covers all
basics of theory
and application,*

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*including
mathematical
models,
elementary graph
theory,
transportation
problems,
connection
problems, party
problems,
digraphs and
mathematical
models, games
and puzzles,*

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more.

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Great

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contemporary
science.**

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mathematical
riddles can be an
intriguing and fun-
filled pastime — as
popular science
writer Martin
Gardner proves in
this entertaining
collection. Puzzlists
need only an**

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***elementary
knowledge of math
and a will to resist
looking up the
answer before trying
to solve a problem.
Written in a light and
witty style,
Entertaining
Mathematical
Puzzles is a mixture
of old and new
riddles, grouped
into sections that***

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cover a variety of mathematical topics: money, speed, plane and solid geometry, probability, topology, tricky puzzles, and more. The probability section, for example, points out that everything we do, everything that happens around us,

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***obeys the laws of probability;
geometry puzzles test our ability to think pictorially and often, in more than one dimension; while topology, among the "youngest and rowdiest branches of modern geometry," offers a glimpse into a***

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***strange dimension
where properties
remain unchanged,
no matter how a
figure is twisted,
stretched, or
compressed. Clear
and concise
comments at the
beginning of each
section explain the
nature and
importance of the
math needed to***

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solve each puzzle. A carefully explained solution follows each problem. In many cases, all that is needed to solve a puzzle is the ability to think logically and clearly, to be "on the alert for surprising, off-beat angles...that strange hidden factor that everyone else had

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overlooked." Fully illustrated, this engaging collection will appeal to parents and children, amateur mathematicians, scientists, and students alike, and may, as the author writes, make the reader "want to study the subject in earnest" and

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*explains "some of
the inviting paths*

that wind away from

the problems into

lusher areas of the

mathematical

jungle." 65 black-

and-white

illustrations.

Sixteen columns

from the French

edition of Scientific

American feature

oddball characters

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***and wacky wordplay
in a mathematical
wonderland of
puzzles and games
that also imparts
significant
mathematical ideas.
1992 edition.***