
The Secret Life Of Equations The 50 Greatest Equations And How They Work

The Secret Life of Equations
The Algebra of Happiness
The Secret Life of War
The Secret Life of Genes
The Mathematics of Love
The Secret Life of Programs
The Secret Life of the Periodic Table
The Soulmate Equation
Incognito
The Shape of a Life
Nothing Stopped Sophie
The Secret Life of Math
Numbers in Motion
The Success Equation
In Pursuit of the Unknown
The Ten Equations That Rule the World
The Happiness Equation
The Secret Life of Houseplants
The Secret Formula
Emotional Equations
The Secret Life of Science
The Miracle Equation

The Secret Life of Violet Grant
 The Secret Life of the Grown-up Brain
 The Secret Life of Programs
 The Last Equation of Isaac Severy
 The Secret Life of Stars
 Classified
 The Secret Life of Language
 Missileman
 How Not to Be Wrong
 Equations of Life
 The Secret Life of L. E. Ward
 A Perfect Equation
 Soccermatics
 The Secret Life of the Brain
 The Love Equation
 The Simpsons and Their Mathematical Secrets
 Maths Hacks
 When We Cease to Understand the World

*The
 Secret
 Life Of
 Equations
 The 50
 Greatest
 Equations
 And How
 They
 Work*

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**KAITLYN
 ASHTYN**

**The Secret
 Life of
 Equations**
 Little, Brown
 Books for

Young
 Readers
 In this must-
 have for
 anyone who
 wants to
 better
 understand
 their love life,
 a
 mathematicia
 n pulls back
 the curtain

and reveals
 the hidden
 patterns—fro
 m dating sites
 to divorce, sex
 to
 marriage—beh
 ind the rituals
 of love. The
 roller coaster
 of romance is
 hard to
 quantify;

defining how lovers might feel from a set of simple equations is impossible. But that doesn't mean that mathematics isn't a crucial tool for understanding love. Love, like most things in life, is full of patterns. And mathematics is ultimately the study of patterns—from predicting the weather to the fluctuations of the stock market, the movement of planets or the growth of cities. These

patterns twist and turn and warp and evolve just as the rituals of love do. In *The Mathematics of Love*, Dr. Hannah Fry takes the reader on a fascinating journey through the patterns that define our love lives, applying mathematical formulas to the most common yet complex questions pertaining to love: What's the chance of finding love? What's the probability that it will last? How do

online dating algorithms work, exactly? Can game theory help us decide who to approach in a bar? At what point in your dating life should you settle down? From evaluating the best strategies for online dating to defining the nebulous concept of beauty, Dr. Fry proves—with great insight, wit, and fun—that math is a surprisingly useful tool to negotiate the complicated, often baffling,

sometimes infuriating, always interesting, mysteries of love.

The Algebra of Happiness

WorthyKids

Genes have a huge impact on who we are, from defining us as humans, to governing how we behave.

Whether controlling our cells or creating new forms of life, discover how DNA makes each of us unique. In *The Secret Life of Genes*, you'll learn all about the past, present and future of the

human genome. Filled with colourful, graphic illustrations to help you to understand the world of genetics, from the basics to the most complex theories, this book brings the inner workings of the human body to life. Derek Harvey answers the biggest questions, from the nature of inheritance, evolution and reproduction, to how genes are arranged and how DNA is read. Take a trip through

the history of the world's DNA and unlock the future of the field.

The Secret Life of War

iUniverse

*Wall Street Journal's

"Mysteries: Best of 2018"

*Book of the Month Club Selection

*Edgar Award Nominee: Best

First Novel by an American

Author A

"hugely entertaining"

(Wall Street Journal)

mystery starring "a

Royal

Tenenbaums-esque clan of

geniuses"

(Martha

Stewart Living)—perfect for fans of Mr. Penumbra's 24-Hour Bookstore. In this "riveting...brilliant" (Booklist) debut, Hazel Severy, the owner of a struggling Seattle bookstore, receives a letter from her adoptive grandfather—mathematician Isaac Severy—days after he dies in a suspected suicide. In his puzzling letter, Isaac alludes to a secretive organization

that is after his final bombshell equation, and he charges Hazel with safely delivering it to a trusted colleague. But first, she must find where the equation is hidden. While in Los Angeles for Isaac's funeral, Hazel realizes she's not the only one searching for his life's work, and that the equation's implications have potentially disastrous consequences for the extended Severy family, a group of

dysfunctional geniuses unmoored by the sudden death of their patriarch. As agents of an enigmatic company shadow Isaac's favorite son—a theoretical physicist—and a long-lost cousin mysteriously reappears in Los Angeles, the equation slips further from Hazel's grasp. She must unravel a series of confounding clues hidden inside one of her favorite novels, drawing her

ever closer to his mathematical treasure. But when her efforts fall short, she is forced to enlist the help of those with questionable motives. "A novel that is anything but clueless, filled with consideration and compassion" (The Washington Post), *The Last Equation of Isaac Severy* proves that, like Hazel, you don't have to love math to fall under the Severy spell. *The Secret Life of Genes*

Penguin
 "This picture book traces the impressive career of Sophie Kowalevski, the first woman to receive a doctorate in mathematics requiring original research. As a girl, Sophie is fascinated by the equations her father uses to wallpaper her room. She proves herself a prodigy, and tutors are impressed enough to give her private lessons. Despite universities

that refuse to allow women on campus or to pay them to teach, Sophie is able to distinguish herself with her research into partial differential equations. Sophie receives a doctorate and becomes the first female professional mathematician in Northern Europe. The book mentions several of Kowalevski's mathematical contributions and closes with an encouraging message about women in

mathematics"-
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**The
Mathematics
of Love**
Bloomsbury
Publishing
A provocative
story of war
that offers
rare insight
into the real
effects of
conflict on
civilians,
reporters, and
societies
themselves.
Once it was
simple to
write about
war. States or
ideologies
clashed;
battles were
fought
between
national
armies or
movements.
But war has
changed. War

has become
"privatized"
by small
armed groups,
states have
fragmented
and the
conventional
arms of the
West are
found wanting
against
warlordism.
Drawing on
the author's
experiences
as a foreign
correspondent
in the world's
most
dangerous
places, The
Secret Life of
War focuses
on the human
cost of war: to
the
combatants,
to civilians
and to the
author, as one
who bears

witness. Every
encounter is
arresting: a
visit to the
bombed and
abandoned
home of
Mullah Omar;
a deserted Al
Qaeda camp
where a plan
to attack
London is
found; young
bomb-
throwers in
Rafah refugee
camp.
Unflinching
and
exquisitely
written, The
Secret Life of
War goes
beyond classic
reportage: it is
a deeply
personal and
defining vision
of the inner,
secret nature
of modern

war.	brake pedal	with J? Why is
<u>The Secret</u>	before you	it so difficult
<u>Life of</u>	become	to keep a
<u>Programs</u>	consciously	secret? And
Penguin	aware of	how is it
If the	danger	possible to get
conscious	ahead? Why	angry at
mind—the	do you hear	yourself—who,
part you	your name	exactly, is
consider to be	being	mad at whom?
you—is just	mentioned in	Taking in
the tip of the	a conversation	brain damage,
iceberg, what	that you didn't	plane
is the rest	think you	spotting,
doing? In this	were listening	dating, drugs,
sparkling and	to? What do	beauty,
provocative	Ulysses and	infidelity,
new book, the	the credit	synesthesia,
renowned	crunch have in	criminal law,
neuroscientist	common? Why	artificial
David	did Thomas	intelligence,
Eagleman	Edison	and visual
navigates the	electrocute an	illusions,
depths of the	elephant in	Incognito is a
subconscious	1916? Why	thrilling
brain to	are people	subsurface
illuminate	whose names	exploration of
surprising	begin with J	the mind and
mysteries:	more likely to	all its
Why can your	marry other	contradictions.
foot move	people whose	<u>The Secret</u>
halfway to the	names begin	<u>Life of the</u>

Periodic Table
Princeton
University
Press
A leading
science writer
examines how
the brain's
capacity
reaches its
peak in middle
age For many
years,
scientists
thought that
the human
brain simply
decayed over
time and its
dying cells led
to memory
slips, fuzzy
logic, negative
thinking, and
even
depression.
But new
research from
neuroscien-
tists and
psychologists
suggests that,

in fact, the
brain
reorganizes,
improves in
important
functions, and
even helps us
adopt a more
optimistic
outlook in
middle age.
Growth of
white matter
and brain
connectors
allow us to
recognize
patterns
faster, make
better
judgments,
and find
unique
solutions to
problems.
Scientists call
these traits
cognitive
expertise and
they reach
their highest
levels in

middle age. In
her
impeccably
researched
book, science
writer Barbara
Strauch
explores the
latest findings
that
demonstrate,
through the
use of
technology
such as brain
scans, that
the middle-
aged brain is
more flexible
and more
capable than
previously
thought. For
the first time,
long-term
studies show
that our view
of middle age
has been
misleading
and
incomplete.

By detailing exactly the normal, healthy brain functions over time, Strauch also explains how its optimal processes can be maintained. Part scientific survey, part how-to guide, *The Secret Life of the Grown-Up Brain* is a fascinating glimpse at our surprisingly talented middle-aged minds.

The Soulmate Equation

Simon and Schuster
An unconventional

I book of wisdom and life advice from renowned business school professor and New York Times bestselling author of *The Four Scott Galloway*. Scott Galloway teaches brand strategy at NYU's Stern School of Business, but his most popular lectures deal with life strategy, not business. In the classroom, on his blog, and in YouTube videos

garnering millions of views, he regularly offers hard-hitting answers to the big questions: What's the formula for a life well lived? How can you have a meaningful career, not just a lucrative one? Is work/life balance possible? What are the elements of a successful relationship? *The Algebra of Happiness: Notes on the Pursuit of Success, Love, and Meaning* draws on Professor

Galloway's mix of anecdotes and no-BS insight to share hard-won wisdom about life's challenges, along with poignant personal stories. Whether it's advice on if you should drop out of school to be an entrepreneur (it might have worked for Steve Jobs, but you're probably not Steve Jobs), ideas on how to position yourself in a crowded job market (do something "boring" and

move to a city; passion is for people who are already rich), discovering what the most important decision in your life is (it's not your job, your car, OR your zip code), or arguing that our relationships to others are ultimately all that matter, Galloway entertains, inspires, and provokes. Brash, funny, and surprisingly moving, *The Algebra of Happiness* represents a refreshing perspective on

our need for both professional success and personal fulfillment, and makes the perfect gift for any new graduate, or for anyone who feels adrift. [Incognito](#)
Doubleday
Canada
Winner of the 2012 Philip K. Dick Award
Samuil Petrovitch is a survivor. He survived the nuclear fallout in St. Petersburg and hid in the London Metrozone -- the last city in England. He's lived this long

because he's a man of rules and logic. For example, getting involved = a bad idea. But when he stumbles into a kidnapping in progress, he acts without even thinking. Before he can stop himself, he's saved the daughter of the most dangerous man in London. And clearly saving the girl = getting involved. Now, the equation of Petrovitch's life is looking increasingly complex. Russian

mobsters + Yakuza + something called the New Machine Jihad = one dead Petrovitch. But Petrovitch has a plan -- he always has a plan -- he's just not sure it's a good one. *The Shape of a Life* National Geographic Books The legendary Renaissance math duel that ushered in the modern age of algebra The Secret Formula tells the story of two Renaissance mathematicians whose jealousies,

intrigues, and contentious debates led to the discovery of a formula for the solution of the cubic equation. Niccolò Tartaglia was a talented and ambitious teacher who possessed a secret formula—the key to unlocking a seemingly unsolvable, two-thousand-year-old mathematical problem. He wrote it down in the form of a poem to prevent other mathematicians from stealing it.

Gerolamo Cardano was a physician, gifted scholar, and notorious gambler who would not hesitate to use flattery and even trickery to learn Tartaglia's secret. Set against the backdrop of sixteenth-century Italy, The Secret Formula provides new and compelling insights into the peculiarities of Renaissance mathematics while bringing a turbulent and culturally vibrant age to

life. It was an era when mathematicians challenged each other in intellectual duels held outdoors before enthusiastic crowds. Success not only enhanced the winner's reputation, but could result in prize money and professional acclaim. After hearing of Tartaglia's spectacular victory in one such contest in Venice, Cardano invited him to Milan, determined to obtain his secret by

whatever means necessary. Cardano's intrigues paid off. In 1545, he was the first to publish a general solution of the cubic equation. Tartaglia, eager to take his revenge by establishing his superiority as the most brilliant mathematician of the age, challenged Cardano to the ultimate mathematical duel. A lively account of genius, betrayal, and all-too-human failings, The Secret

<p>Formula reveals the epic rivalry behind one of the fundamental ideas of modern algebra. <u>Nothing Stopped Sophie Weidenfeld & Nicolson</u> Is there a secret formula for getting rich? For going viral? For deciding how long to stick with your current job, Netflix series, or even relationship? This book is all about the equations that make our world go round. Ten of</p>	<p>them, in fact. They are integral to everything from investment banking to betting companies and social media giants. And they can help you to increase your chance of success, guard against financial loss, live more healthfully, and see through scaremongering. They are known by only the privileged few - until now. With wit and clarity, mathematician David Sumpter</p>	<p>shows that it isn't the technical details that make these formulas so successful. It is the way they allow mathematicians to view problems from a different angle - a way of seeing the world that anyone can learn. Empowering and illuminating, <u>The Ten Equations</u> shows how math really can change your life. <u>The Secret Life of Math</u> Simon and Schuster 'Football</p>
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looked at in a very different way' Pat Nevin, former Chelsea and Everton star and football media analyst Football - the most mathematical of sports. From shot statistics and league tables to the geometry of passing and managerial strategy, the modern game is filled with numbers, patterns and shapes. How do we make sense of them? The answer lies in the mathematical models

applied in biology, physics and economics. Soccermaths brings football and mathematics together in a mind-bending synthesis, using numbers to help reveal the inner workings of the beautiful game. This new and expanded edition analyses the current big-name players and teams using mathematics, and meets the professionals working inside football who use numbers and statistics

to boost performance. Welcome to the world of mathematical modelling, expressed brilliantly by David Sumpter through the prism of football. No matter who you follow - from your local non-league side to the big boys of the Premiership, La Liga, the Bundesliga, Serie A or the MLS - you'll be amazed at what mathematics has to teach us about the world's favourite

sport.

Numbers in

Motion

Penguin

A Fields

medalist

recounts his

lifelong effort

to uncover the

geometric

shape—the

Calabi-Yau

manifold—that

may store the

hidden

dimensions of

our universe.

Harvard

geometer

Shing-Tung

Yau has

provided a

mathematical

foundation for

string theory,

offered new

insights into

black holes,

and

mathematicall

y

demonstrated

the stability of
our universe.

In this

autobiography

, Yau reflects

on his

improbable

journey to

becoming one

of the world's

most

distinguished

mathematicia

ns. Beginning

with an

impoverished

childhood in

China and

Hong Kong,

Yau takes

readers

through his

doctoral

studies at

Berkeley

during the

height of the

Vietnam War

protests, his

Fields

Medal-winning

proof of the

Calabi

conjecture, his

return to

China, and his

pioneering

work in

geometric

analysis. This

new branch of

geometry,

which Yau

built up with

his friends and

colleagues,

has paved the

way for

solutions to

several

important and

previously

intransigent

problems.

With

complicated

ideas

explained for

a broad

audience, this

book offers

not only

insights into

the life of an

eminent mathematician, but also an accessible way to understand advanced and highly abstract concepts in mathematics and theoretical physics. “The remarkable story of one of the world’s most accomplished mathematicians . . . Yau’s personal journey—from escaping China as a youngster, leading a gang outside Hong Kong, becoming captivated by mathematics,

to making breakthroughs that thrust him on the world stage—inspires us all with humankind’s irrepressible spirit of discovery.” —Brian Greene, New York Times–bestselling author of *The Elegant Universe* “An unexpectedly intimate look into a highly accomplished man, his colleagues and friends, the development of a new field of geometric analysis, and a glimpse into a truly

uncommon mind.” —The Boston Globe “Engaging, eminently readable. . . . For those with a taste for elegant and largely jargon-free explanations of mathematics, *The Shape of a Life* promises hours of rewarding reading.” —American Scientist
The Success Equation
Vintage
In *The Secret Life of Stars*, award-winning astronomer Lisa Harvey-Smith takes us on a cosmic

journey to meet some of the weirdest, most extreme, and enigmatic stars in the universe. We all know the Sun, the powerhouse of our solar system, but what about Luyten's Flare, the Rosino-Zwicky Object, or Chanal's variable star? For those whose curiosity takes them far beyond Earth's atmosphere, *The Secret Life of Stars* offers a personal and readily understood introduction to

some of the Galaxy's most remarkable stars. Written by award-winning astronomer Lisa Harvey-Smith, each chapter explains various different and unusual stars and their amazing characteristics and attributes, from pulsars, blue stragglers, and white dwarfs, to cannibal stars and explosive supernovae. With beautiful chapter illustrations by Eirian Chapman, this book brings to

life the remarkable personalities of these stars, reminding readers what a diverse and unpredictable universe we live in and how fortunate we are to live around a stable star, our Sun.

In Pursuit of the Unknown

New York Review of Books
A revealing and provocative look at the current state of global science We take the advance of science as given. But how does

science really work? Is it truly as healthy as we tend to think? How does the system itself shape what scientists do? The Secret Life of Science takes a clear-eyed and provocative look at the current state of global science, shedding light on a cutthroat and tightly tensioned enterprise that even scientists themselves often don't fully understand. The Secret Life of Science is a dispatch

from the front lines of modern science. It paints a startling picture of a complex scientific ecosystem that has become the most competitive free-market environment on the planet. It reveals how big this ecosystem really is, what motivates its participants, and who reaps the rewards. Are there too few scientists in the world or too many? Are some fields expanding at the expense

of others? What science is shared or published, and who determines what the public gets to hear about? What is the future of science? Answering these and other questions, this controversial book explains why globalization is not necessarily good for science, nor is the continued growth in the number of scientists. It portrays a scientific community engaged in a

race for limited resources that determines whether careers are lost or won, whose research visions become the mainstream, and whose vested interests end up in control. The Secret Life of Science explains why this hypercompetitive environment is stifling the diversity of research and the resiliency of science itself, and why new ideas are needed to ensure that

the scientific enterprise remains healthy and vibrant. **The Ten Equations That Rule the World** Hachette UK The seventeen equations that form the basis for life as we know it. Most people are familiar with history's great equations: Newton's Law of Gravity, for instance, or Einstein's theory of relativity. But the way these mathematical breakthroughs have contributed to human progress is

seldom appreciated. In *In Pursuit of the Unknown*, celebrated mathematician Ian Stewart untangles the roots of our most important mathematical statements to show that equations have long been a driving force behind nearly every aspect of our lives. Using seventeen of our most crucial equations -- including the Wave Equation that allowed engineers to measure a building's

response to earthquakes, saving countless lives, and the Black-Scholes model, used by bankers to track the price of financial derivatives over time -- Stewart illustrates that many of the advances we now take for granted were made possible by mathematical discoveries. An approachable, lively, and informative guide to the mathematical building blocks of modern life, In Pursuit of the

Unknown is a penetrating exploration of how we have also used equations to make sense of, and in turn influence, our world.

The Happiness Equation No Starch Press Everything you need to know about 100 key mathematical concepts condensed into easy-to-understand sound bites designed to stick in your memory and give you an instant grasp of the concept. On each topic, you'll start

with a helicopter overview of the subject, which will give you an introduction to the idea and some context surrounding it. Next, you'll zoom in on the core elements of the theory, with clear explanation of each point to make sure you really understand the concept, along with simple examples that everyone can follow. Finally, you'll be given a one-liner hack to really make the theory stick in

your mind. The perfect introduction to algebra, logic, probability and much more, this is a great new way to learn about the most important mathematical ideas and concepts in a way that makes them easy to recall even months after reading the book. Topics covered include: Numbers Algebra Logic Geometry Probability Computer science Applied mathematics Mechanics

Statistics Set Theory
The Secret Life of Houseplants
 Basic Books
 "Witty, compelling, and just plain fun to read . . ." —Evelyn Lamb,
 Scientific American
 The Freakonomics of 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*, 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 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 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 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 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, 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 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 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 understand

the world in a deeper, more meaningful way. How Not to Be Wrong will show you how.

The Secret Formula

Carlos Marin Delgado From bestselling author of Fermat's Last Theorem, a must-have for number lovers and Simpsons fans

Emotional Equations

Cassell A story of love and intrigue that travels from Kennedy-era Manhattan to World War I Europe from the New York Times

bestselling author of Her Last Flight and Husbands & Lovers. Fresh from college, irrepressible Vivian Schuyler defies her wealthy Fifth Avenue family to work at cutthroat Metropolitan magazine. But this is 1964, and the editor dismisses her...until a parcel lands on Vivian's Greenwich Village doorstep that starts a journey into the life of an aunt she never knew, who might give her just

the story she's been waiting for. In 1912, Violet Schuyler Grant moved to Europe to study physics, and made a disastrous marriage to a philandering fellow scientist. As the continent edges closer to the brink of war, a charismatic British army captain enters her life, drawing her into an audacious gamble that could lead to happiness...or disaster. Fifty years later, Violet's ultimate fate remains shrouded in mystery. But the more obsessively Vivian investigates her disappearing aunt, the more she realizes all they have in common—and that Violet's secret life is about to collide with hers. A People StyleWatch "Must Read Book" One of Reader's Digest's Top Summer Thrillers of the Year

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