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KEY=LOVE - SARIAH LUCIANO

THE MATHEMATICS OF LOVE

PATTERNS, PROOFS, AND THE SEARCH FOR THE ULTIMATE EQUATION

Simon and Schuster Uses math as a tool for explaining the complicated patterns of love, tackling such common questions as the chance of finding love that will last, how online dating works, and when to compromise.

THE MATHEMATICS OF LOVE

Simon and Schuster Part of the TED series: The Mathematics of Love There is no topic that attracts more attention-more energy and time and devotion- than love. Love, like most things in life, is full of patterns. And mathematics is ultimately the study of patterns. In her book The Mathematics of Love - and TEDxTalk of the same name -Dr. Hannah Fry takes the audience on a fascinating journey through the patterns that define our love lives, tackling some of the most common yet complex questions pertaining to love: What's the chance of us finding love? What's the chance that it will last? How does online dating work, exactly? When should you settle down? How can you avoid divorce? When is it right to compromise? Can game theory help us decide whether or not to call? 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 maths is a surprisingly useful tool to negotiate the complicated, often baffling, sometimes infuriating, always interesting, patterns of love.

THE COMPLETE GUIDE TO ABSOLUTELY EVERYTHING (ABRIDGED): ADVENTURES IN MATH AND SCIENCE

W. W. Norton & Company *The complete story of the universe and absolutely everything in it (minus the boring parts). Despite our clever linguistic abilities, humans are spectacularly ill-equipped to comprehend what's happening in the universe. Our senses and intuition routinely mislead us. The Complete Guide to Absolutely Everything (Abridged) tells the story of how we came to suppress our monkey minds and perceive the true nature of reality. Written with wit and humor, this brief book tells the story of science—tales of fumbles and missteps, errors and egos, hard work, accidents, and some really bad decisions—all of which have created the sum total of human knowledge. Geneticist Adam Rutherford and mathematician Hannah Fry guide readers through time and space, through our bodies and brains, showing how emotions shape our view of reality, how our minds tell us lies, and why a mostly bald and curious ape decided to begin poking at the fabric of the universe. Rutherford and Fry shine as science sleuths, wrestling with some truly head-scratching questions: Where did time come from? Do we have free will? Does my dog love me? Hilarious sidebars present memorable scientific oddities: for example, hypnotized snails, human-sized ants, and the average time it takes most animals to evacuate their bladders. (A surprisingly consistent twenty-one seconds, if you must know.) Both rigorous and playful, The Complete Guide to Absolutely Everything (Abridged) is a celebration of the weirdness of the cosmos, the strangeness of humans, and the joys and follies of scientific discovery.*

THE LIFE-CHANGING MAGIC OF NUMBERS

Random House *If you found maths lessons at school irrelevant and boring, that's because you didn't have a teacher like Bobby Seagull. ***As seen on Monkman & Seagull's Genius Guide to Britain*** Long before his rise to cult fandom on University Challenge, Bobby Seagull was obsessed with numbers. They were the keys that unlocked the randomness of football results, the beauty of art and the best way to get things done. In his absorbing book, Bobby tells the story of his life through numbers and shows the incredible ways maths can make sense of the world around us. From magic shows to rap lyrics, from hobbies to outer space, from fitness to food – Bobby's infectious enthusiasm for numbers will change how you think about almost everything. Told through fascinating stories and insights from Bobby's life, and with head-scratching puzzles in every chapter, you'll never look at numbers the same way again.*

MATHEMATICS AND SEX

Allen & Unwin *Dabble in the beauty and wonder of mathematics as it contributes to a variety of fields including literature, biology, economics and of course psychology, where the mathematics of sex plays some unexpected roles.*

THE MATHEMATICS OF LOVE

Hachette UK *From the Suffolk countryside to the old Basque towns of Spain, Emma Darwin's unforgettable debut tells the astoundingly moving story of Stephen, a veteran of Waterloo, whose suffering and secret lost happiness is transformed by love. Gorgeously written, fascinating and engrossing, THE MATHEMATICS OF LOVE is a sexy, heartbreaking, glorious novel by a major new literary star.*

RUTHERFORD AND FRY'S COMPLETE GUIDE TO ABSOLUTELY EVERYTHING (ABRIDGED)

NEW FROM THE STARS OF BBC RADIO 4

Random House *THE SUNDAY TIMES BESTSELLER 'Explores just about every area of life' DAILY MAIL 'If only Adam Rutherford and Hannah Fry were on tap to all of us, all the time . . . The pair have such a gift for making life, numbers and the forces at work in the universe all the richer, stranger, funnier and more marvellous.'* Stephen Fry *In Rutherford and Fry's comprehensive guidebook, they tell the complete story of the universe and absolutely everything in it - skipping over some of the boring parts. This is a celebration of the weirdness of the cosmos, the strangeness of humans and the fact that amid all the mess, we can somehow make sense of life. Our brains have evolved to tell us all sorts of things that feel intuitively right but just aren't true: the world looks flat, the stars seem fixed in the heavenly firmament, a day is 24 hours... This book is crammed full of tales of how stuff really works. With the power of science, Rutherford and Fry show us how to bypass our monkey-brains, taking us on a journey from the origin of time and space, via planets, galaxies, evolution, the dinosaurs, all the way into our minds, and wrestling with some truly head-scratching questions that only science can answer: What is time, and where does it come from? Why are animals the size and shape they are? How horoscopes work (Spoiler: they don't, but you think they do) Does my dog love me? Why nothing is truly round? Do you need your eyes to see? 'A wonderfully engaging blend of wit, enthusiasm, clarity and knowledge.'* Bill Bryson *'Like the universe itself, this book is multi-faceted, surprising and full of wonders. It's also funny, wise and exceedingly brainy. You really owe it to yourself to read it.'* Tim Harford, author of *How To Make The World Add Up*

A BOOK OF CURVES

Cambridge University Press *Describes the drawing of plane curves, cycloidal curves, spirals, glissettes and others.*

MATHEMATICAL MINDSETS

UNLEASHING STUDENTS' POTENTIAL THROUGH CREATIVE MATH, INSPIRING MESSAGES AND INNOVATIVE TEACHING

John Wiley & Sons Banish math anxiety and give students of all ages a clear roadmap to success Mathematical Mindsets provides practical strategies and activities to help teachers and parents show all children, even those who are convinced that they are bad at math, that they can enjoy and succeed in math. Jo Boaler—Stanford researcher, professor of math education, and expert on math learning—has studied why students don't like math and often fail in math classes. She's followed thousands of students through middle and high schools to study how they learn and to find the most effective ways to unleash the math potential in all students. There is a clear gap between what research has shown to work in teaching math and what happens in schools and at home. This book bridges that gap by turning research findings into practical activities and advice. Boaler translates Carol Dweck's concept of 'mindset' into math teaching and parenting strategies, showing how students can go from self-doubt to strong self-confidence, which is so important to math learning. Boaler reveals the steps that must be taken by schools and parents to improve math education for all. Mathematical Mindsets: Explains how the brain processes mathematics learning Reveals how to turn mistakes and struggles into valuable learning experiences Provides examples of rich mathematical activities to replace rote learning Explains ways to give students a positive math mindset Gives examples of how assessment and grading policies need to change to support real understanding Scores of students hate and fear math, so they end up leaving school without an understanding of basic mathematical concepts. Their evasion and departure hinders math-related pathways and STEM career opportunities. Research has shown very clear methods to change this phenomena, but the information has been confined to research journals—until now. Mathematical Mindsets provides a proven, practical roadmap to mathematics success for any student at any age.

LOVING AND HATING MATHEMATICS

CHALLENGING THE MYTHS OF MATHEMATICAL LIFE

Princeton University Press Mathematics is often thought of as the coldest expression of pure reason. But few subjects provoke hotter emotions--and inspire more love and hatred--than mathematics. And although math is frequently idealized as floating above the messiness of human life, its story is nothing if not human; often, it is all too human. Loving and Hating Mathematics is about the hidden human, emotional, and social forces that shape mathematics and affect the experiences of students and mathematicians. Written in a lively, accessible style, and filled with gripping stories and anecdotes, Loving and Hating Mathematics brings home the intense pleasures and pains of mathematical life. These stories challenge many myths, including the notions that mathematics is a

solitary pursuit and a "young man's game," the belief that mathematicians are emotionally different from other people, and even the idea that to be a great mathematician it helps to be a little bit crazy. Reuben Hersh and Vera John-Steiner tell stories of lives in math from their very beginnings through old age, including accounts of teaching and mentoring, friendships and rivalries, love affairs and marriages, and the experiences of women and minorities in a field that has traditionally been unfriendly to both. Included here are also stories of people for whom mathematics has been an immense solace during times of crisis, war, and even imprisonment--as well as of those rare individuals driven to insanity and even murder by an obsession with math. This is a book for anyone who wants to understand why the most rational of human endeavors is at the same time one of the most emotional.

MEASUREMENT

Harvard University Press Lockhart's Mathematician's Lament outlined how we introduce math to students in the wrong way. Measurement explains how math should be done. With plain English and pictures, he makes complex ideas about shape and motion intuitive and graspable, and offers a solution to math phobia by introducing us to math as an artful way of thinking and living.

ORCA

HOW WE CAME TO KNOW AND LOVE THE OCEAN'S GREATEST PREDATOR

Oxford University Press Drawing on interviews, official records, private archives, and the author's own family history, this is the definitive story of how the feared and despised "killer" became the beloved "orca", and what that has meant for our relationship with the ocean and its creatures

STORIES OF YOUR LIFE AND OTHERS

Pan Macmillan 'A science fiction genius . . . Ted Chiang is a superstar.' GUARDIAN With Stories of Your Life and Others, his masterful first collection, multiple-award-winning author Ted Chiang deftly blends human emotion and scientific rationalism in eight remarkably diverse stories, all told in his trademark precise and evocative prose. From a soaring Babylonian tower that connects a flat Earth with the firmament above, to a world where angelic visitations are a wondrous and terrifying part of everyday life; from a neural modification that eliminates the appeal of physical beauty, to an alien language that challenges our very perception of time and reality, Chiang's rigorously imagined fantasias invite us to question our understanding of the universe and our place in it. 'United by a humane intelligence that speaks very directly to the reader, and makes us experience each story with immediacy and Chiang's calm

passion.' CHINA MIÉVILLE

HELLO WORLD

HOW TO BE HUMAN IN THE AGE OF THE MACHINE

Random House _____ 'One of the best books yet written on data and algorithms. . .deserves a place on the bestseller charts.' (The Times) You are accused of a crime. Who would you rather determined your fate – a human or an algorithm? An algorithm is more consistent and less prone to error of judgement. Yet a human can look you in the eye before passing sentence. Welcome to the age of the algorithm, the story of a not-too-distant future where machines rule supreme, making important decisions – in healthcare, transport, finance, security, what we watch, where we go even who we send to prison. So how much should we rely on them? What kind of future do we want? Hannah Fry takes us on a tour of the good, the bad and the downright ugly of the algorithms that surround us. In Hello World she lifts the lid on their inner workings, demonstrates their power, exposes their limitations, and examines whether they really are an improvement on the humans they are replacing. A BBC RADIO 4: BOOK OF THE WEEK SHORTLISTED FOR THE 2018 BAILLIE GIFFORD PRIZE AND 2018 ROYAL SOCIETY SCIENCE BOOK PRIZE

LOVE SONGS

THE HIDDEN HISTORY

Oxford University Press, USA Uncovers the unexplored history of the love song, from the fertility rites of ancient cultures to the sexualized YouTube videos of the present day, and discusses such topics as censorship, the legacy of love songs, and why it is a dominant form of modern musical expression.

FLATLAND

A ROMANCE OF MANY DIMENSIONS

Courier Corporation Classic of science (and mathematical) fiction — charmingly illustrated by the author — describes the adventures of A. Square, a resident of Flatland, in Spaceland (three dimensions), Lineland (one dimension), and Pointland (no dimensions).

THINGS TO MAKE AND DO IN THE FOURTH DIMENSION

Penguin UK *Stand-up mathematician and star of Festival of the Spoken Nerd, Matt Parker presents Things to Make and Do in the Fourth Dimension -- a riotous journey through the possibilities of numbers, with audience participation - Cut pizzas in new and fairer ways! - Fit a 2p coin through an impossibly small hole! - Make a perfect regular pentagon by knotting a piece of paper! - Tie your shoes faster than ever before, saving literally seconds of your life! - Use those extra seconds to contemplate the diminishing returns of an exclamation-point at the end of every bullet-point! - Make a working computer out of dominoes! Maths is a game. This book can be cut, drawn in, folded into shapes and will even take you to the fourth dimension. So join stand-up mathematician Matt Parker on a journey through narcissistic numbers, optimal dating algorithms, at least two different kinds of infinity and more.*

CONTACT

Simon and Schuster *Pulitzer Prize-winning author and astronomer Carl Sagan imagines the greatest adventure of all—the discovery of an advanced civilization in the depths of space. In December of 1999, a multinational team journeys out to the stars, to the most awesome encounter in human history. Who—or what—is out there? In Cosmos, Carl Sagan explained the universe. In Contact, he predicts its future—and our own.*

HOW TO THINK LIKE A MATHEMATICIAN

A COMPANION TO UNDERGRADUATE MATHEMATICS

Cambridge University Press *This arsenal of tips and techniques eases new students into undergraduate mathematics, unlocking the world of definitions, theorems, and proofs.*

CROCHET CORAL REEF

A PROJECT

"Now perhaps the world's largest participatory art and science project, the Crochet Coral Reef combines mathematics, marine biology, environmental consciousness-raising and community art practice. Almost 8,000 people around the world have contributed to making an ever-evolving archipelago of giant woolen seascapes, which have been exhibited at the Hayward Gallery, the Smithsonian and many other venues. This fully illustrated book, written by the project's creators--Margaret and Christine Wertheim of the Institute For

Figuring--brings together the scientific and mathematical content behind the project, along with essays about the artistic and cultural resonances of this unique experiment in radical craft practice. With a wealth of color illustrations, the book serves as a record of the 30-plus Crochet Reefs worldwide and names all 7,000-plus contributors in a specially designed section."--Amazon.

THE TERRORIST'S SON

A STORY OF CHOICE

Simon and Schuster *The author discusses his life as the son of a terrorist and how he came to reject his father's ideology and embrace the path of nonviolence.*

MAGICAL MATHEMATICS

THE MATHEMATICAL IDEAS THAT ANIMATE GREAT MAGIC TRICKS

Princeton University Press *"Magical Mathematics reveals the secrets of amazing, fun-to-perform card tricks--and the profound mathematical ideas behind them--that will astound even the most accomplished magician. Persi Diaconis and Ron Graham provide easy, step-by-step instructions for each trick, explaining how 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 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 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 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 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 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 more"*

LOVE AND MATH

THE HEART OF HIDDEN REALITY

Hachette UK *An awesome, globe-spanning, and New York Times bestselling journey through the beauty and power of mathematics. What if you had to take an art class in which you were only taught how to paint a fence? What if you were never shown the paintings of van Gogh and Picasso, weren't even told they existed? Alas, this is how math is taught, and so for most of us it becomes the intellectual equivalent of watching paint dry. In Love and Math, renowned mathematician Edward Frenkel reveals a side of math we've never seen, suffused with all the beauty and elegance of a work of art. In this heartfelt and passionate book, Frenkel shows that mathematics, far from occupying a specialist niche, goes to the heart of all matter, uniting us across cultures, time, and space. Love and Math tells two intertwined stories: of the wonders of mathematics and of one young man's journey learning and living it. Having braved a discriminatory educational system to become one of the twenty-first century's leading mathematicians, Frenkel now works on one of the biggest ideas to come out of math in the last 50 years: the Langlands Program. Considered by many to be a Grand Unified Theory of mathematics, the Langlands Program enables researchers to translate findings from one field to another so that they can solve problems, such as Fermat's last theorem, that had seemed intractable before. At its core, Love and Math is a story about accessing a new way of thinking, which can enrich our lives and empower us to better understand the world and our place in it. It is an invitation to discover the magic hidden universe of mathematics.*

THE LOGIC OF SCIENCE IN SOCIOLOGY

Routledge *The subject of this book is limited to the abstract form or "logic" of science, as applied particularly to scientific sociology. But the discussion presented here goes beyond abstraction and serves a practical role in the sociology and history of science by providing a framework for reducing the enormous variety of scientific researches—both within a given field and across all fields—to a limited number of interrelated formal elements. Such a framework may prove useful in assessing empirical relationships between the formal aspects of scientific work and its substantive social, economic, political, and historical aspects. This is a work of synthesis that merits close attention. It provides an area for viewing theory as something more than a review of the history of any single social science discipline.*

LINCOLN ON THE VERGE

THIRTEEN DAYS TO WASHINGTON

Simon & Schuster *WINNER OF THE LINCOLN FORUM BOOK PRIZE* “A Lincoln classic...superb.” —*The Washington Post* “A book for our

time.”—*Doris Kearns Goodwin Lincoln on the Verge* tells the dramatic story of America’s greatest president discovering his own strength to save the Republic. As a divided nation plunges into the deepest crisis in its history, Abraham Lincoln boards a train for Washington and his inauguration—an inauguration Southerners have vowed to prevent. *Lincoln on the Verge* charts these pivotal thirteen days of travel, as Lincoln discovers his power, speaks directly to the public, and sees his country up close. Drawing on new research, this riveting account reveals the president-elect as a work in progress, showing him on the verge of greatness, as he foils an assassination attempt, forges an unbreakable bond with the American people, and overcomes formidable obstacles in order to take his oath of office.

LIFE!

REFLECTIONS ON YOUR JOURNEY

ReadHowYouWant.com *In LIFE! Reflections on Your Journey*, Louise L. Hay brings you a truly moving and inspirational book that will help you identify and heal a number of the pressing issues that you encounter on your path. Among other topics, Louise deals with growing up, relationships, work, health, spirituality, aging, death ... and many of the problems, fears, and challenges that these passages bring about. No matter what obstacles lie before you, Louise continually reminds you that the magnificent, frightening, delightful, ridiculous, astounding phenomenon that you experience between birth and death is what LIFE is all about!

THE CRYSTALLIZATION OF THE ARAB STATE SYSTEM, 1945-1954

Syracuse University Press This volume contains a comprehensive examination of the crucial first ten years of the Arab League and of the continuing dilemma it faces in juggling opposing local and regional interests.

ASTEROID HUNTERS

Simon and Schuster For the first time, scientists could have the knowledge to prevent a natural disaster epic in scale—an asteroid hitting the earth and in this exciting, adventuresome book, Carrie Nugent explains how. What are asteroids, and where do they come from? And, most urgently: Are they going to hit the Earth? What would happen if one was on its way? Carrie Nugent is an asteroid hunter—part of a group of scientists working to map our cosmic neighborhood. For the first time ever, we are reaching the point where we may be able to prevent the horrible natural disaster that would result from an asteroid collision. In *Asteroid Hunters*, Nugent reveals what known impact asteroids have had: the extinction of the dinosaurs, the earth-sized hole Shoemaker Levy 9 left in Jupiter

just a few decades ago, how the meteorite that bursted over Chelyabinsk in Russia could have started a war, and unlucky Ms. Anne Hodges—the only person (that we know of) in US history to be the victim of a direct hit. Nugent also introduces the telescope she uses to detect near-Earth asteroids. Ultimately, detection is the key to preventing asteroid impact, and these specialized scientists are working to prevent the unthinkable from happening. If successful, asteroid hunting will lead to the first natural disaster humans have the know-how and the technology to prevent. The successful hunt and mapping of asteroids could mean nothing less than saving life on earth.

THE MAGIC OF MATH

SOLVING FOR X AND FIGURING OUT WHY

Hachette UK The world's greatest mental mathematical magician takes us on 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 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 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 fan and math-phobic alike. "A positively joyful exploration of mathematics." -- Publishers Weekly, starred review "Each [trick] is more dazzling than the last." -- Physics World

STRUCK BY GENIUS

HOW A BRAIN INJURY MADE ME A MATHEMATICAL MARVEL

HMH From head trauma to scientific wonder—a “deeply absorbing . . . fascinating” true story of acquired savant syndrome (Entertainment Weekly). Twelve years ago, Jason Padgett had never made it past pre-algebra. But a violent mugging forever altered the way his brain worked. It turned an ordinary math-averse student into an extraordinary young man with a unique gift to see the world as no one else does: water pours from the faucet in crystalline patterns, numbers call to mind distinct geometric shapes, and intricate fractal patterns emerge from the movement of tree branches, revealing the intrinsic mathematical designs hidden in the objects around us. As his ability to understand physics skyrocketed, the “accidental genius” developed the astonishing ability to draw the complex geometric shapes he saw everywhere. Overcoming huge setbacks and embracing his new mind, Padgett “gained a vision

of the world that is as beautiful as it is challenging.” Along the way he fell in love, found joy in numbers, and spent plenty of time having his head examined (The New York Times Book Review). Illustrated with Jason’s stunning, mathematically precise artwork, his singular story reveals the wondrous potential of the human brain, and “an incredible phenomenon which points toward dormant potential—a little Rain Man perhaps—within us all” (Darold A. Treffert, MD, author of Islands of Genius: The Bountiful Mind of the Autistic, Acquired, and Sudden Savant). “A tale worthy of Ripley’s Believe It or Not! . . . This memoir sends a hopeful message to families touched by brain injury, autism, or neurological damage from strokes.” —Booklist “How extraordinary it is to contemplate the bizarre gifts that might lie within all of us.” —People

SCIENCE, MUSIC, AND MATHEMATICS: THE DEEPEST CONNECTIONS

World Scientific Professor Michael Edgeworth McIntyre is an eminent scientist who has also had a part-time career as a musician. From a lifetime's thinking, he offers this extraordinary synthesis exposing the deepest connections between science, music, and mathematics, while avoiding equations and technical jargon. He begins with perception psychology and the dichotomization instinct and then takes us through biological evolution, human language, and acausality illusions all the way to the climate crisis and the weaponization of the social media, and beyond that into the deepest parts of theoretical physics — demonstrating our unconscious mathematical abilities. He also has an important message of hope for the future. Contrary to popular belief, biological evolution has given us not only the nastiest, but also the most compassionate and cooperative parts of human nature. This insight comes from recognizing that biological evolution is more than a simple competition between selfish genes. Rather, he suggests, in some ways it is more like turbulent fluid flow, a complex process spanning a vast range of timescales. Professor McIntyre is a Fellow of the Royal Society of London (FRS) and has worked on problems as diverse as the Sun's magnetic interior, the Antarctic ozone hole, jet streams in the atmosphere, and the psychophysics of violin sound. He has long been interested in how different branches of science can better communicate with each other and with the public, harnessing aspects of neuroscience and psychology that point toward the deep 'lucidity principles' that underlie skilful communication.

THE MATH OF LIFE AND DEATH

7 MATHEMATICAL PRINCIPLES THAT SHAPE OUR LIVES

Simon and Schuster "Few of us really appreciate the full power of math--the extent to which its influence is not only in every office and every home, but also in every courtroom and hospital ward. In this ... book, Kit Yates explores the true stories of life-changing events in which the application--or misapplication--of mathematics has played a critical role: patients crippled by faulty genes and

entrepreneurs bankrupted by faulty algorithms; innocent victims of miscarriages of justice; and the unwitting victims of software glitches"--Publisher marketing.

FOLLOW YOUR GUT

THE ENORMOUS IMPACT OF TINY MICROBES

Simon and Schuster Details the tiny world of microbes living inside our bodies and how they affect our health, asserting that proper regulation of these microbes through diet choices, probiotics and more can help battle allergies, asthma, obesity, acne, stomachaches and more.

WHY EVOLUTION IS TRUE

OUP Oxford For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. *Why Evolution is True* weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution.

THE HIDDEN REALITY

PARALLEL UNIVERSES AND THE DEEP LAWS OF THE COSMOS

Penguin UK "The Hidden Reality" reveals how major developments in different branches of fundamental theoretical physics -- relativistic, quantum, cosmological, unified, computational -- have all led us to consider one or another variety of parallel universe.

MATHEMATICS FOR COMPUTER SCIENCE

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 notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

THE JOY OF X

A GUIDED TOUR OF MATH, FROM ONE TO INFINITY

Houghton Mifflin Harcourt *A comprehensive tour of leading mathematical ideas by an award-winning professor and columnist for the New York Times Opinionator series demonstrates how math intersects with philosophy, science and other aspects of everyday life. By the author of The Calculus of Friendship. 50,000 first printing.*

THE IRON MAN

A clanking iron giant topples from a cliff and lies smashed on the rocks below. Then his various parts begin to stir and reach out for one another. The Iron Man is ready to walk again, and he is very hungry.

WHAT'S MATH GOT TO DO WITH IT?

MUSIC

A SUBVERSIVE HISTORY

Basic Books *"A dauntingly ambitious, obsessively researched" (Los Angeles Times) global history of music that reveals how songs have shifted societies and sparked revolutions. Histories of music overwhelmingly suppress stories of the outsiders and rebels who created musical revolutions and instead celebrate the mainstream assimilators who borrowed innovations, diluted their impact, and disguised their sources. In Music: A Subversive History, Ted Gioia reclaims the story of music for the riffraff, insurgents, and provocateurs. Gioia tells a four-thousand-year history of music as a global source of power, change, and upheaval. He shows how outcasts, immigrants, slaves, and others at the margins of society have repeatedly served as trailblazers of musical expression, reinventing our most cherished songs from ancient times all the way to the jazz, reggae, and hip-hop sounds of the current day. Music: A Subversive History is essential reading for anyone interested in the meaning of music, from Sappho to the Sex Pistols to*

Spotify.