

# Five Equations That Changed The World The Power And Poetry Of Mathematics

**The Principles of Mathematics** Bertrand Russell 1996 Russell's classic *The Principles of Mathematics* sets forth his landmark thesis that mathematics and logic are identical--that what is commonly called mathematics is simply later deductions from logical premises.

**It Must be Beautiful** Graham Farmelo 2002 A stunning and unique look at the great equations that lie at the heart of many of the most successful scientific theories.

**Euler's Pioneering Equation** Robin Wilson 2019-07-17 In just seven symbols, with profound and beautiful simplicity, Euler's Equation connects five of the most important numbers in mathematics. Robin Wilson explores each number in turn, then brings them together to consider the power of the equation as a whole.

**Nobel Prize Women in Science** Sharon Bertsch McGrayne 2001-04-12 Since 1901 there have been over three hundred recipients of the Nobel Prize in the sciences. Only ten of them--about 3 percent--have been women. Why? In this updated version of *Nobel Prize Women in Science*, Sharon Bertsch McGrayne explores the reasons for this astonishing disparity by examining the lives and achievements of fifteen women scientists who either won a Nobel Prize or played a crucial role in a Nobel Prize - winning project. The book reveals the relentless discrimination these women faced both as students and as researchers. Their success was due to the fact that they were passionately in love with science. The book begins with Marie Curie, the first woman to win the Nobel Prize in physics. Readers are then introduced to Christiane Nusslein-Volhard, Emmy Noether, Lise Meitner, Barbara McClintock, Chien-Shiung Wu, and Rosalind Franklin. These and other remarkable women portrayed here struggled against gender discrimination, raised families, and became political and religious leaders. They were mountain climbers, musicians, seamstresses, and gourmet cooks. Above all, they were strong, joyful women in love with discovery. *Nobel Prize Women in Science* is a startling and revealing look into the history of science and the critical and inspiring role that women have played in the drama of scientific progress.

**Six Septembers: Mathematics for the Humanist** Patrick Juola 2017 Scholars of all stripes are turning their attention to materials that represent enormous opportunities for the future of humanistic inquiry. The purpose of this book is to impart the concepts that underlie the mathematics they are likely to encounter and to unfold the notation in a way that removes that particular barrier completely. This book is a primer for developing the skills to enable humanist scholars to address complicated technical material with confidence. This book, to put it plainly, is concerned with the things that the author of a technical article knows, but isn't saying. Like any field, mathematics operates under a regime of shared assumptions, and it is our purpose to elucidate some of those assumptions for the newcomer. The individual subjects we tackle are (in order): logic and proof, discrete mathematics, abstract algebra, probability and statistics, calculus, and differential equations.

**Five Equations That Changed the World** Michael Guillen 2012-06-05 A Publishers Weekly best book of 1995! Dr. Michael Guillen, known to millions as the science editor of ABC's *Good Morning America*, tells the fascinating stories behind five mathematical equations. As a regular contributor to daytime's most popular morning news show and an instructor at Harvard University, Dr. Michael Guillen has earned the respect of millions as a clear and entertaining guide to the exhilarating world of science and mathematics. Now Dr. Guillen unravels the equations that have led to the inventions and events that characterize the modern world, one of which -- Albert Einstein's famous energy equation,  $E=mc^2$  -- enabled the creation of the nuclear bomb. Also revealed are the mathematical foundations for the moon landing, airplane travel, the electric generator -- and even life itself. Praised by Publishers Weekly as "a wholly accessible, beautifully written exploration of the potent mathematical imagination," and named a Best Nonfiction Book of 1995, the stories behind *The Five Equations That Changed the World*, as told by Dr. Guillen, are not only chronicles of science, but also gripping dramas of jealousy, fame, war, and discovery.

**Science, Music, And Mathematics: The Deepest Connections (Second Edition)** Michael Edgeworth McIntyre 2023-08-02 Professor Michael Edgeworth McIntyre is an eminent scientist who has also had a part-time career as a musician. In this book he offers an extraordinary synthesis, revealing the many deep connections between science, music,

and mathematics. He avoids equations and technical jargon. The connections are deep in the sense of being embedded in our very nature, rooted in biological evolution over hundreds of millions of years. Michael guides us through biological evolution, perception psychology, and even unconscious science and mathematics, all the way to the scientific uncertainties about the climate crisis. He also has a message of hope for the future. Contrary to popular belief, he holds that 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 far more than a simple competition between selfish genes. Instead, he argues, in some ways it is more like the turbulent, eddying flow in a river or in an atmospheric jet stream, a complex process spanning a vast range of timescales. Professor McIntyre is a Fellow of the Royal Society of London (FRS) and has long been interested in how different branches of science can better communicate with each other, and with the public. His work harnesses aspects of neuroscience and psychology that point toward the deep 'lucidity principles' that underlie skilful communication, principles related to the way music works -- music of any genre. This Second Edition sharpens the previous discussion of communication skills and their importance for today's great problems, ranging from the widely discussed climate crisis to the need to understand the strengths and weaknesses of artificial intelligence.

**A History of Mathematical Notations** Florian Cajori 2013-09-26 This classic study notes the origin of a mathematical symbol, the competition it encountered, its spread among writers in different countries, its rise to popularity, and its eventual decline or ultimate survival. 1929 edition.

**Mathematical Writing** Donald E. Knuth 1989 This book will help those wishing to teach a course in technical writing, or who wish to write themselves.

**Math Girls** Hiroshi Yuki 2011 Originally published 2007 in Japan by Softbank Creative Corp., Tokyo.

**Chaos Theory Tamed** Garnett Williams 1997-09-09 This text aims to bridge the gap between non-mathematical popular treatments and the distinctly mathematical publications that non-mathematicians find so difficult to penetrate. The author provides understandable derivations or explanations of many key concepts, such as Kolmogorov-Sinai entropy, dimensions, Fourier analysis, and Lyapunov exponents.

**Marketing of Agricultural Products** Richard Louis Kohls 2002 The ninth edition of "Marketing of Agricultural Products" contains completely updated content, tables, figures, and references including the 1997 Census of Agriculture and Business, as well as Trade data, and U.S. Department of Agriculture studies. It blends marketing and economic theory with real world analytical tools to assist readers in better understanding the food system and making profitable marketing decisions. This edition includes increased treatment of food value-adding and marketing management, including advertising, new product development, sales promotion, pricing, and logistics. For farmers, consumers, or those in food marketing.

**The Essence of Mathematics Through Elementary Problems** Alexandre Borovik 2019-06-11

**Thinking In Numbers** Daniel Tammet 2013-07-30 The irresistibly engaging book that "enlarges one's wonder at Tammet's mind and his all-embracing vision of the world as grounded in numbers" (Oliver Sacks, MD). Thinking in Numbers is the book that Daniel Tammet, mathematical savant and bestselling author, was born to write. In Tammet's world, numbers are beautiful and mathematics illuminates our lives and minds. Using anecdotes, everyday examples, and ruminations on history, literature, and more, Tammet allows us to share his unique insights and delight in the way numbers, fractions, and equations underpin all our lives. Inspired variously by the complexity of snowflakes, Anne Boleyn's eleven fingers, and his many siblings, Tammet explores questions such as why time seems to speed up as we age, whether there is such a thing as an average person, and how we can make sense of those we love. His provocative and inspiring new book will change the way you think about math and fire your imagination to view the world with fresh eyes.

**The Prince of Mathematics** M. B. W. Tent 2008-10-23 Learn about the boy who - could read and add numbers when he was three years old, - thwarted his teacher by finding a quick and easy way to sum the numbers 1-100, - attracted the attention of a Duke with his genius, and became the man who... - predicted the reappearance of a lost planet, -

discovered basic properties of magnetic forces, - invented a surveying tool used by professionals until the invention of lasers. Based on extensive research of original and secondary sources, this historical narrative will inspire young readers and even curious adults with its touching story of personal achievement.

**Bridges to Infinity** Michael Guillen 1983 This book is an endlessly fascinating journey through a mathematician's looking glass.

**Men of Mathematics** E.T. Bell 2014-03-31 From one of the greatest minds in contemporary mathematics, Professor E.T. Bell, comes a witty, accessible, and fascinating look at the beautiful craft and enthralling history of mathematics. Men of Mathematics provides a rich account of major mathematical milestones, from the geometry of the Greeks through Newton's calculus, and on to the laws of probability, symbolic logic, and the fourth dimension. Bell breaks down this majestic history of ideas into a series of engrossing biographies of the great mathematicians who made progress possible—and who also led intriguing, complicated, and often surprisingly entertaining lives. Never pedantic or dense, Bell writes with clarity and simplicity to distill great mathematical concepts into their most understandable forms for the curious everyday reader. Anyone with an interest in math may learn from these rich lessons, an advanced degree or extensive research is never necessary.

**Amazing Truths** Michael Guillen 2016-02-09 Does science discredit the Bible, God, religious faith? Absolutely not, says Dr. Michael Guillen, former Harvard physics instructor and Emmy-winning ABC News Science Editor. In Amazing Truths, he uses his entertaining, down-to-earth storytelling skills to reveal ten astonishing truths affirmed by both ancient Scripture and modern science that answer some of our biggest questions: Can faith really move mountains? Does absolute truth exist? Are humans truly unique? Is it possible to communicate with God? How much about the universe do we actually know? How could Jesus have been fully man and fully God? In Amazing Truths, Dr. Guillen explains that faith is not some outdated way of thinking. Faith is a necessary part of science, Christianity, and any intelligent, comprehensive, coherent worldview—vastly more powerful than even logic. Amazing Truths will expand your mind and bolster your faith. You will see for yourself what Dr. Guillen, a theoretical physicist and devout Christian, has discovered in a lifetime of serious exploration—that science and faith are not at odds. In fact, they're the ultimate power couple.

**Testimonios: Stories of Latinx and Hispanic Mathematicians** Pamela E. Harris 2021-08-16 Testimonios brings together first-person narratives from the vibrant, diverse, and complex Latinx and Hispanic mathematical community. Starting with childhood and family, the authors recount their own individual stories, highlighting their upbringing, education, and career paths. Their particular stories, told in their own voices, from their own perspectives, give visibility to some of the experiences of Latinx/Hispanic mathematicians. Testimonios seeks to inspire the next generation of Latinx and Hispanic mathematicians by featuring the stories of people like them, holding a mirror up to our own community. It also aims to provide a window for mathematicians (and aspiring mathematicians) from all ethnicities, with the hope of inspiring a better understanding of the diversity of the mathematical community.

**Crucibles** Bernard Jaffe 1976-01-01 Brief biographies of great chemists, from Trevisan and Paracelsus to Bohr and Lawrence, provide a survey of the discoveries and advances that shaped modern chemistry

**Five Equations That Changed the World** Michael Guillen 1995 A Publishers Weekly best book of 1995! Dr. Michael Guillen, known to millions as the science editor of ABC's Good Morning America, tells the fascinating stories behind five mathematical equations. As a regular contributor to daytime's most popular morning news show and an instructor at Harvard University, Dr. Michael Guillen has earned the respect of millions as a clear and entertaining guide to the exhilarating world of science and mathematics. Now Dr. Guillen unravels the equations that have led to the inventions and events that characterize the modern world, one of which -- Albert Einstein's famous energy equation,  $E=mc^2$  -- enabled the creation of the nuclear bomb. Also revealed are the mathematical foundations for the moon landing, airplane travel, the electric generator -- and even life itself. Praised by Publishers Weekly as "a wholly accessible, beautifully written exploration of the potent mathematical imagination," and named a Best Nonfiction Book of 1995, the stories behind The Five Equations That Changed the World, as told by Dr. Guillen, are not only chronicles of science, but also gripping dramas of jealousy, fame, war, and discovery.

**In Pursuit of the Unknown** Ian Stewart 2012-03-13 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.

**Mathematics for Computer Science** Eric Lehman 2017-03-08 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.

**99 Variations on a Proof** Philip Ording 2021-10-19 An exploration of mathematical style through 99 different proofs of the same theorem This book offers a multifaceted perspective on mathematics by demonstrating 99 different proofs of the same theorem. Each chapter solves an otherwise unremarkable equation in distinct historical, formal, and imaginative styles that range from Medieval, Topological, and Doggerel to Chromatic, Electrostatic, and Psychedelic. With a rare blend of humor and scholarly aplomb, Philip Ording weaves these variations into an accessible and wide-ranging narrative on the nature and practice of mathematics. Inspired by the experiments of the Paris-based writing group known as the Oulipo—whose members included Raymond Queneau, Italo Calvino, and Marcel Duchamp—Ording explores new ways to examine the aesthetic possibilities of mathematical activity. 99 Variations on a Proof is a mathematical take on Queneau's Exercises in Style, a collection of 99 retellings of the same story, and it draws unexpected connections to everything from mysticism and technology to architecture and sign language. Through diagrams, found material, and other imagery, Ording illustrates the flexibility and creative potential of mathematics despite its reputation for precision and rigor. Readers will gain not only a bird's-eye view of the discipline and its major branches but also new insights into its historical, philosophical, and cultural nuances. Readers, no matter their level of expertise, will discover in these proofs and accompanying commentary surprising new aspects of the mathematical landscape.

**Mathematicians of the World, Unite!** Guillermo Curbera 2009-02-23 This vividly illustrated history of the International Congress of Mathematicians — a meeting of mathematicians from around the world held roughly every four years — acts as a visual history of the 25 congresses held between 1897 and 2006, as well as a story of changes in the culture of mathematics over the past century. Because the congress is an international meeting, looking at its history allows us a glimpse into the effect of wars and strained relations between nations on the scientific community.

**Where Mathematics Come From How The Embodied Mind Brings Mathematics Into Being** George Lakoff 2000-11-02 A study of the cognitive science of mathematical ideas.

**Infinite Powers** Steven Strogatz 2019 From preeminent math personality and author of The Joy of x, a brilliant and endlessly appealing explanation of calculus - how it works and why it makes our lives immeasurably better. Without calculus, we wouldn't have cell phones, TV, GPS, or ultrasound. We wouldn't have unraveled DNA or discovered Neptune or figured out how to put 5,000 songs in your pocket. Though many of us were scared away from this essential, engrossing subject in high school and college, Steven Strogatz's brilliantly creative, down-to-earth history shows that calculus is not about complexity; it's about simplicity. It harnesses an unreal number--infinity--to tackle real-world problems, breaking them down into easier ones and then reassembling the answers into solutions that feel miraculous. Infinite Powers recounts how calculus tantalized and thrilled its inventors, starting with its first glimmers in ancient Greece and bringing us right up to the discovery of gravitational



waves (a phenomenon predicted by calculus). Strogatz reveals how this form of math rose to the challenges of each age: how to determine the area of a circle with only sand and a stick; how to explain why Mars goes "backwards" sometimes; how to make electricity with magnets; how to ensure your rocket doesn't miss the moon; how to turn the tide in the fight against AIDS. As Strogatz proves, calculus is truly the language of the universe. By unveiling the principles of that language, *Infinite Powers* makes us marvel at the world anew.

**Humble Pi** Matt Parker 2021-01-19 #1 INTERNATIONAL BESTSELLER AN ADAM SAVAGE BOOK CLUB PICK The book-length answer to anyone who ever put their hand up in math class and asked, "When am I ever going to use this in the real world?" "Fun, informative, and relentlessly entertaining, *Humble Pi* is a charming and very readable guide to some of humanity's all-time greatest miscalculations—that also gives you permission to feel a little better about some of your own mistakes."

—Ryan North, author of *How to Invent Everything* Our whole world is built on math, from the code running a website to the equations enabling the design of skyscrapers and bridges. Most of the time this math works quietly behind the scenes . . . until it doesn't. All sorts of seemingly innocuous mathematical mistakes can have significant consequences. Math is easy to ignore until a misplaced decimal point upends the stock market, a unit conversion error causes a plane to crash, or someone divides by zero and stalls a battleship in the middle of the ocean. Exploring and explaining a litany of glitches, near misses, and mathematical mishaps involving the internet, big data, elections, street signs, lotteries, the Roman Empire, and an Olympic team, Matt Parker uncovers the bizarre ways math trips us up, and what this reveals about its essential place in our world. Getting it wrong has never been more fun.

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**Change Is the Only Constant** Ben Orlin 2019-10-08 The next book from Ben Orlin, the popular math blogger and author of the underground bestseller *Math With Bad Drawings*. *Change Is The Only Constant* is an engaging and eloquent exploration of the intersection between calculus and daily life, complete with Orlin's sly humor and wonderfully bad drawings. *Change is the Only Constant* is an engaging and eloquent exploration of the intersection between calculus and daily life, complete with Orlin's sly humor and memorably bad drawings. By spinning 28 engaging mathematical tales, Orlin shows us that calculus is simply another language to express the very things we humans grapple with every day -- love, risk, time, and most importantly, change. Divided into two parts, "Moments" and "Eternities," and drawing on everyone from Sherlock Holmes to Mark Twain to David Foster Wallace, *Change is the Only Constant* unearths connections between calculus, art, literature, and a beloved dog named Elvis. This is not just math for math's sake; it's math for the sake of becoming a wiser and more thoughtful human.

**The Great Equations: Breakthroughs in Science from Pythagoras to Heisenberg** Robert P. Crease 2010-01-18 "Any reader who aspires to be scientifically literate will find this a good starting place." —Publishers Weekly While we may be familiar with some of science's greatest equations, we may not know that each and every equation emerged not in "Eureka!" moments but in years of cultural developments and scientific knowledge. With vignettes full of humor, drama, and eccentricity, philosopher and science historian Robert P. Crease shares the stories behind ten of history's greatest equations, from the "first equation,"  $1 + 1 = 2$ , which promises a rational, well-ordered world, to Heisenberg's uncertainty principle, which reveals the limitations of human knowledge. For every equation, Crease provides a brief account

of who discovered it, what dissatisfactions lay behind its discovery, and what the equation says about the nature of our world.

**A Mathematician's Lament** Paul Lockhart 2009-04-01 "One of the best critiques of current mathematics education I have ever seen."—Keith Devlin, math columnist on NPR's *Morning Edition* A brilliant research mathematician who has devoted his career to teaching kids reveals math to be creative and beautiful and rejects standard anxiety-producing teaching methods. Witty and accessible, Paul Lockhart's controversial approach will provoke spirited debate among educators and parents alike and it will alter the way we think about math forever. Paul Lockhart, has taught mathematics at Brown University and UC Santa Cruz. Since 2000, he has dedicated himself to K-12 level students at St. Ann's School in Brooklyn, New York.

**Mirror Symmetry** Kentaro Hori 2003 This thorough and detailed exposition is the result of an intensive month-long course on mirror symmetry sponsored by the Clay Mathematics Institute. It develops mirror symmetry from both mathematical and physical perspectives with the aim of furthering interaction between the two fields. The material will be particularly useful for mathematicians and physicists who wish to advance their understanding across both disciplines. Mirror symmetry is a phenomenon arising in string theory in which two very different manifolds give rise to equivalent physics. Such a correspondence has significant mathematical consequences, the most familiar of which involves the enumeration of holomorphic curves inside complex manifolds by solving differential equations obtained from a "mirror" geometry. The inclusion of D-brane states in the equivalence has led to further conjectures involving calibrated submanifolds of the mirror pairs and new (conjectural) invariants of complex manifolds: the Gopakumar-Vafa invariants. This book gives a single, cohesive treatment of mirror symmetry. Parts 1 and 2 develop the necessary mathematical and physical background from "scratch". The treatment is focused, developing only the material most necessary for the task. In Parts 3 and 4 the physical and mathematical proofs of mirror symmetry are given. From the physics side, this means demonstrating that two different physical theories give isomorphic physics. Each physical theory can be described geometrically, and thus mirror symmetry gives rise to a "pairing" of geometries. The proof involves applying  $S^1$  circle duality to the phases of the fields in the gauged linear sigma model. The mathematics proof develops Gromov-Witten theory in the algebraic setting, beginning with the moduli spaces of curves and maps, and uses localization techniques to show that certain hypergeometric functions encode the Gromov-Witten invariants in genus zero, as is predicted by mirror symmetry. Part 5 is devoted to advanced topics This one-of-a-kind book is suitable for graduate students and research mathematicians interested in mathematics and mathematical and theoretical physics.

**Believing Is Seeing** Michael Guillen, PhD 2021-09-07 Is your worldview enlightened enough to accommodate both science and God at the same time? Dr. Michael Guillen, a best-selling author, Emmy award-winning journalist and former physics instructor at Harvard, used to be an Atheist—until science changed his mind. Once of the opinion that people of faith are weak, small-minded folks who just don't understand science, Dr. Guillen ultimately concluded that not only does science itself depend on faith, but faith is actually the mightiest power in the universe. In *Believing Is Seeing*, Dr. Guillen recounts the fascinating story of his journey from Atheism to Christianity, citing the latest discoveries in neuroscience, physics, astronomy, and mathematics to pull back the curtain on the mystery of faith as no one ever has. Is it true that "seeing is believing?" Or is it possible that reality can be perceived most clearly with the eyes of faith—and that truth is bigger than proof? Let Dr. Guillen be your guide as he brilliantly argues for a large and enlightened worldview consistent with both God and modern science.

**Math in Society** David Lippman 2012-09-07 *Math in Society* is a survey of contemporary mathematical topics, appropriate for a college-level topics course for liberal arts major, or as a general quantitative reasoning course. This book is an open textbook; it can be read free online at <http://www.opentextbookstore.com/mathinsociety/>. Editable versions of the chapters are available as well.

**The End of Life as We Know It** Michael Guillen 2018-10-16 "It's happening this second. Scientists are re-imagining and re-engineering the world forever. With brutal honesty and engaging story-telling, Michael Guillen gives us a clear-eyed look at a future that is already here. Consider this unsettling, brilliantly written, must-read book your official wake up call." -- ERIC METAXAS, #1 national bestselling author of *Bonhoeffer: Pastor, Martyr, Prophet, Spy* "Michael Guillen has tackled

an important subject in *The End of Life as We Know It...* This book is a sobering look at where we could be headed. A fascinating read." -- DAVID LIMBAUGH, bestselling author of *Jesus is Risen* and *The True Jesus* In all aspects of life, humans are crossing lines of no return. Modern science is leading us into vast uncharted territory—far beyond the invention of nuclear weapons or taking us to the moon. Today, in labs all over the world, scientists are performing experiments that threaten to fundamentally alter the practical character and ethical color of our everyday lives. In *The End of Life as We Know It: Ominous News from the Frontiers of Science*, bestselling author and Emmy award winning science journalist Michael Guillen takes a penetrating look at how the scientific community is pushing the boundaries of morality, including:

- Scientists who detached the head of a Russian man from his crippled, diseased body, and stitching it onto a healthy new donated body.
- Fertility experiments aimed at allowing designer babies to be conceived with the DNA from three or more biological parents.
- The unprecedented politicization of science - for example, in the global discussion about climate change that is pitting “deniers” against “alarmists” and inspiring Draconian legislation, censorship, and legal prosecutions.
- The integration of Artificial Intelligence into communications and the economy.

*The End of Life as We Know It* takes us into laboratories and boardrooms where these troubling advances are taking place and asks the question no scientists seem to be asking: What does this mean for the future of humanity? PREVIOUS PRAISE FOR MICHAEL GUILLEN: “Guillen succeeds triumphantly...He writes with extraordinary grace and clarity.” — CHRISTOPHER LEHMANN-HAUPT, *The New York Times* “Guillen knows how to tell a story.” — Wall Street Journal “Michael Guillen is ‘Winsomely brilliant.’” — ERIC METAXAS, #1 national bestselling author of *Bonhoeffer: Pastor, Martyr, Prophet, Spy* “Michael Guillen bridges the seeming gap between science and faith better than anyone I know.” — CAL THOMAS, Syndicated and USA Today columnist/Fox News contributor

*The Mathematical Universe* William Dunham 1994-08-16 "Dunham writes for nonspecialists, and they will enjoy his piquant anecdotes and amusing asides -- Booklist "Artfully, Dunham conducts a tour of the mathematical universe. . .he believes these ideas to be accessible to the audience he wants to reach, and he writes so that they are." -- Nature "If you want to encourage anyone's interest in math, get them *The Mathematical Universe*." \* New Scientist

**Our Mathematical Universe** Max Tegmark 2015-02-03 Max Tegmark leads us on an astonishing journey through past, present and future, and through the physics, astronomy and mathematics that are the foundation of his work, most particularly his hypothesis that our physical reality is a mathematical structure and his theory of the ultimate multiverse. In a dazzling combination of both popular and groundbreaking science, he not only helps us grasp his often mind-boggling theories, but he also shares with us some of the often surprising triumphs and disappointments that have shaped his life as a scientist. Fascinating from first to last—this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians.

**The Equation that Couldn't be Solved** Mario Livio 2007 From the author of the bestseller "The Golden Ratio" comes the story of the 4,000-year-long mathematical quest that uncovered the laws of symmetry in nature and the arts.

**Snowflakes, Sugar, and Salt** Chū Maki 1993 Examines, in text and illustrations, the characteristics of various types of crystals found in everyday life.

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