Uncle Petros And Goldbachs Conjecture

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An Autobiography
The Anatomy of Integers and Permutations

A Novel

CONOR ZACHARY

Finding Moonshine: A Mathematician's Journey Through Symmetry (Text Only) HarperCollins UK
First there was Edwin A. Abbott's remarkable Flatland, published in 1884, and one of the all-time classics of popular mathematics. Now, from mathematician and accomplished science writer Ian Stewart, comes what Nature calls "a superb sequel." Through larger-than-life characters and an inspired story line, Flatterland explores our present understanding of the shape and origins of the universe, the nature of space, time, and matter, as well as modern geometries and their applications. The journey begins when our heroine, Victoria Line, comes upon her great-great-grandfather A. Square's diary, hidden in the attic. The writings help her to contact the Space Hopper, who tempts her away from her home and family in Flatland and becomes her guide and mentor through ten dimensions. In the tradition of Alice in Wonderland and The Phantom Toll Booth, this magnificent investigation into the nature of reality is destined to become a modern classic.
An Eternal Golden Braid Princeton University Press
Opening another drawer in his Cabinet of Curiosities, renowned mathematics professor Ian Stewart presents a new medley of games, paradoxes, and riddles in Professor Stewart's Hoard of Mathematical Treasures. With wit and aplomb, Stewart mingles casual puzzles with grander forays into ancient and modern mathematical thought. Amongst a host of arcane and astonishing facts about every kind of number from irrational and imaginary to complex and cuneiform, we learn: – How to organize chaos – How matter balances anti-matter – How to turn a sphere inside out (without creasing it) – How to calculate pi by observing the stars – ...and why you can't comb a hairy ball. Along the way Stewart offers the reader tantalizing glimpses of the mathematics underlying life and the universe. Mind-stretching, enlightening, and endlessly amusing, Professor Stewart's Hoard of Mathematical Treasures will stimulate, delight, and enthrall.
A Work Of Scientific Speculation Epigram Books
This collection presents significant contributions from an international network project on mathematical cultures, including essays from leading scholars in the history and philosophy of mathematics and mathematics education. Mathematics has universal standards of validity. Nevertheless, there are local styles in mathematical research and teaching, and great variation in the place of mathematics in the larger cultures that mathematical practitioners belong to. The reflections on mathematical cultures collected in this book are of interest to mathematicians, philosophers, historians, sociologists, cognitive scientists and mathematics educators.
Stories Metropolitan Books
Kevin is a young man without a soul, holidaying in Tokyo; Mr Five, the enigmatic kappa, is the man he so happens to meet. Little does Kevin know that kappas—the river demons of Japanese folklore—desire nothing more than the souls of other humans. Set between Singapore and Japan, Kappa Quartet is split into eight discrete sections, tracing the rippling effects of this chance encounter across a host of other characters, connected and bound to one another in ways both strange and serendipitous. Together they ask one another: what does it mean to be in possession of something nobody has seen before?
Like Flatland, Only More So Penguin Group(CA)
The primacy of words over images has deep roots in Western culture. But what if the two are inextricably linked in meaning-making? In this experiment in visual thinking, drawn in comics, Nick Sousanis defies conventional discourse to offer readers a stunning work of graphic art and a serious inquiry into the ways humans construct knowledge.
Pythagorean Crimes Macmillan
By the author of The Cambridge Quintet, John L. Castiâ€™s new book continues the tradition of combining science fact with just the right dose of fiction. Part novel, part science â€" wholly informative and entertaining. In the fall of 1933 the newly founded Institute for Advanced Study in Princeton, New Jersey, welcomed its first faculty member, Albert Einstein. With this superstar on the roster, the Institute was able to attract many more of the greatest scholars, scientists, and poets from around the world. It was to be an intellectual haven, a place where the most brilliant minds on the planet, sheltered from the outside worldâ€™s cares and calamities, could study and collaborate and devote their time to the pure and exclusive pursuit of knowledge. For many of them, it was the â€œone, true, platonic heaven.â€ Over the years, key figures at the Institute began to question the limits to what science could tell us about the world, pondering the universal secrets it might unlock. Could science be the ultimate source of truth; or are there intrinsic limits, built into the very fabric of the universe, to what we can learn? In the late 1940â€™s and early 1950â€™s, this important question was being asked and pondered upon by some of the Instituteâ€™s deepest thinkers. Enter the dramatis personae to illuminate the science and the philosophy of the time. Mathematical logician Kurt Godel was the unacknowledged Grant Exalted Ruler of this platonic estate â€" but he was a ruler without a scepter as he awaited the inexplicably indefinite postponement of his promotion to full, tenured professor. Also in residence was his colleague, the Hungarian-American polymath, John van Neumann, developer of game theory, the axiomatic foundations of quantum mechanics, and the digital computer â€" stymied by the Instituteâ€™s refusal to sanction his bold proposal to actually build a computer. One of Godelâ€™s closest friends figures large in this story: Albert Einstein, by common consensus the greatest physicist the 20th century had ever known. And, of course, the director the Institute, J. Robert Oppenheimer, the father of the atomic bomb, must by necessity be key to any story that focuses in on this time and place. Author Casti elegantly sets the stage and then masterfully directs this impressive cast of charactersâ€"with able assists by many â€œminor-characterâ€ icons like T. S. Eliot, Wolfgang Pauli, Freeman Dyson, and David Bohm, to tell a story of science, history, and ideas. As we watch events unfold (some of which are documented fact while others are creatively imagined fiction), we are witness to the discussions and deliberations of this august groupâ€¦ privy to wide-ranging conversations on thinking machines, quantum logic, biology as physics, weather forecasting, the structure of economic systems, the distinction between mathematics and natural science, the structure of the universe, and the powers of the human mind â€" all centered around the question of the limits to scientific knowledge. Imaginatively

conceived and artfully executed, The One True Platonic Heaven is an accessible and intriguing presentation of some of the deepest scientific and philosophical ideas of the 20th century.
A Novel of Mathematical Obsession MIT Press
A meditation on the beauty and meaning of numbers, exploring mathematical equations, describing some of the mathematical discoveries of the past millennia, and pondering philosophical questions about the relation of numbers to the universe.
Mathematical Cultures Basic Books
The world of computation according to Turing, an interactive tutoring program, as told to star-crossed lovers: a novel. Our hero is Turing, an interactive tutoring program and namesake (or virtual emanation?) of Alan Turing, World War II code breaker and father of computer science. In this unusual novel, Turing's idiosyncratic version of intellectual history from a computational point of view unfolds in tandem with the story of a love affair involving Ethel, a successful computer executive, Alexandros, a melancholy archaeologist, and Ian, a charismatic hacker. After Ethel (who shares her first name with Alan Turing's mother) abandons Alexandros following a sundrenched idyll on Corfu, Turing appears on Alexandros's computer screen to unfurl a tutorial on the history of ideas. He begins with the philosopher-mathematicians of ancient Greece—"discourse, dialogue, argument, proof... can only thrive in an egalitarian society"—and the Arab scholar in ninth-century Baghdad who invented algorithms; he moves on to many other topics, including cryptography and artificial intelligence, even economics and developmental biology. (These lessons are later critiqued amusingly and developed further in postings by a fictional newsgroup in the book's afterword.) As Turing's lectures progress, the lives of Alexandros, Ethel, and Ian converge in dramatic fashion, and the story takes us from Corfu to Hong Kong, from Athens to San Francisco—and of course to the Internet, the disruptive technological and social force that emerges as the main locale and protagonist of the novel. Alternately pedagogical and romantic, Turing (A Novel about Computation) should appeal both to students and professionals who want a clear and entertaining account of the development of computation and to the general reader who enjoys novels of ideas.
How Mathematical Thinking Evolved And Why Numbers Are Like Gossip Basic Books
Mr. Ruche, a Parisian bookseller, receives a bequest from a long lost friend in the Amazon of a vast library of math books, which propels him into a great exploration of the story of mathematics. Meanwhile Max, whose family lives with Mr. Ruche, takes in a voluble parrot who will discuss math with anyone. When Mr. Ruche learns of his friend's mysterious death in a Brazilian rainforest, he decides that with the parrot's help he will use these books to teach Max and his brother and sister the mysteries of Euclid's Elements, Pythagoras's Theorem and the countless other mathematical wonders. But soon it becomes clear that Mr. Ruche has inherited the library for reasons other than enlightenment, and before he knows it the household is racing to prevent the parrot and vital, new theorems from falling into the wrong hands. An immediate bestseller when first published in France, The Parrot's Theorem charmingly combines a straightforward history of mathematics and a first-rate murder mystery.
Thunder's Mouth Press
The biography of a mathematical genius. Paul Erdos was the most prolific pure mathematician in history and, arguably, the strangest too. 'A mathematical genius of the first order, Paul Erdos was totally obsessed with his subject -- he thought and wrote mathematics for nineteen hours a day until he died. He travelled constantly, living out of a plastic bag and had no interest in food, sex, companionship, art -- all that is usually indispensible to a human life. Paul Hoffman, in this marvellous biography, gives us a vivid and strangely moving portrait of this singular creature, one that brings out not only Erdos's genius and his oddness, but his warmth and sense of fun, the joyfulness of his strange life.' Oliver Sacks For six decades Erdos had no job, no hobbies, no wife, no home; he never learnt to cook, do laundry, drive a car and died a virgin. Instead he travelled the world with his mother in tow, arriving at the doorstep of esteemed mathematicians declaring 'My brain is open'. He travelled until his death at 83, racing across four continents to prove as many theorems as possible, fuelled by a diet of espresso and amphetamines. With more than 1,500 papers written or co-written,
The Indian Clerk Springer Science & Business Media
'What is a self and how can a self come out of inanimate matter?' This is the riddle that drove Douglas Hofstadter to write this extraordinary book. In order to impart his original and personal view on the core mystery of human existence - our intangible sensation of 'I'-ness - Hofstadter defines the playful yet seemingly paradoxical notion of 'strange loop', and explicates this idea using analogies from many disciplines.
The Cambridge Quintet Icon Books Ltd
Cunning, fantastical tales about a Greek village of the imagination, from a startling new talent Panos Karnezis' remarkable stories are all set in the same nameless Greek village. His characters are the people who live there--the priest, the whore, the doctor, the seamstress, the mayor--and the occasional animal: a centaur, a parrot that recites Homer, a horse called History. Their lives intersect, as lives do in a small place, and they know each other's secrets: the hidden crimes, the mysteries, the little infamies that men commit. Karnezis observes his villagers with a worldly eye, and creates a place where magic invariably loses out to harsh reality, a place full of passion, cruelty, and deep reserves of black humor. These stories recall the masters of the form--the wit and sophisticated playfulness of Saki and the primal fatalism of Prosper Merimee--but they are utterly original and prove that Karnezis is one of the freshest new voices in English fiction.
The London Meetings 2012-2014 Bellevue Literary Press
Uncle Petros is a family joke. An ageing recluse, he lives alone in a suburb of Athens, playing chess and tending to his garden. If you didn't know better, you'd surely think he was one of life's failures. But his young nephew suspects otherwise. For Uncle Petros, he discovers, was once a celebrated mathematician, brilliant and foolhardy enough to stake everything on solving a problem that had defied all attempts at proof for nearly three centuries - Goldbach's Conjecture. His quest brings him into contact with some of the century's greatest mathematicians, including the Indian prodigy Ramanujan and the young Alan Turing. But his struggle is lonely and single-minded, and by the end it has apparently destroyed his life. Until that is a final encounter with his nephew opens up to Petros, once more, the deep mysterious beauty of mathematics. Uncle Petros and Goldbach's Conjecture is an inspiring novel of intellectual adventure, proud genius, the exhilaration of pure mathematics - and the rivalry and antagonism which torment those who pursue impossible goals.
Between Logic and Reality Phaidon Press
This is a book about prime numbers, congruences, secret

messages, and elliptic curves that you can read cover to cover. It grew out of undergr- uate courses that the author taught at Harvard, UC San Diego, and the University of Washington. The systematic study of number theory was initiated around 300B. C. when Euclid proved that there are in?nitely many prime numbers, and also cleverly deduced the fundamental theorem of arithmetic, which asserts that every positive integer factors uniquely as a product of primes. Over a thousand years later (around 972A. D.) Arab mathematicians formulated the congruent number problem that asks for a way to decide whether or not a given positive integer n is the area of a right triangle, all three of whose sides are rational numbers. Then another thousand years later (in 1976), Di?e and Hellman introduced the ?rst ever public-key cryptosystem, which enabled two people to communicate secretely over a public communications channel with no predetermined secret; this invention and the ones that followed it revolutionized the world of digital communication. In the 1980s and 1990s, elliptic curves revolutionized number theory, providing striking new insights into the congruent number problem, primality testing, publ- key cryptography, attacks on public-key systems, and playing a central role in Andrew Wiles' resolution of Fermat's Last Theorem.

The Story of Paul Erdös and the Search for Mathematical Truth Oxford University Press, USA

In 2010, French mathematician Cédric Villani received the Fields Medal, the most coveted prize in mathematics, in recognition of a proof which he devised with his close collaborator Clément Mouhot to explain one of the most surprising theories in classical physics. Birth of a Theorem is Villani's own account of the years leading up to the award. It invites readers inside the mind of a great mathematician as he wrestles with the most important work of his career. But you don't have to understand nonlinear Landau damping to love Birth of a Theorem. It doesn't simplify or overexplain; rather, it invites readers into collaboration. Villani's diaries, emails, and musings enmesh you in the process of discovery. You join him in unproductive lulls and late-night breakthroughs. You're privy to the dining-hall conversations at the world's greatest research institutions. Villani shares his favorite songs, his love of manga, and the imaginative stories he tells his children. In mathematics, as in any creative work, it is the thinker's whole life that propels discovery—and with Birth of a Theorem, Cédric Villani welcomes you into his.

Uncle Petros and Goldbach's Conjecture A&C Black

Onkel Petros' nevø fortæller kærligt den bittersøde historie om onkelens livslange, passionerede arbejde med at føre bevis for matematikeren Goldbachs formodning, at ethvert lige tal er summen af to primtal

Flatterland Fourth Estate (GB)

What's so funny about math? Lots! Especially if you're mathematically bent. In the world of Colin Adams, differential equations bring on tears of laughter. Hollywood producers hire algebraic geometers to punch up a script. In this world, math and humor are synonymous. Riot at the Calc Exam is a proof of this fact. A collection of humorous math stories, this book gives a window into mathematics and the culture of mathematicians. Appropriate for mathematicians, math students, math teachers, lay people with an interest in mathematics, and indeed everyone else. This book is a romp through the wild world of mathematics.

Roger Fishbite Bloomsbury Publishing USA

Uncle Petros and Goldbach's ConjectureFaber & Faber

Factoring Humanity Bloomsbury Publishing USA

"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.

The Beauty and Magic of Numbers American Mathematical Soc.

After his friend Stefanos Kantartzis is found murdered in 1929 Athens, Michael Igerinos investigates whether the solution of a mathematical problem drove someone to commit the dirty deed. Reprint.

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