

# Eccentric Orbits The Iridium Story

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European-Russian Space Cooperation Brian Harvey 2021-04-10 The story of European-Russian collaboration in space is little known and its importance all too often understated. Because France was the principal interlocutor between these nations, such cooperation did not receive the attention it deserved in English-language literature. This book rectifies that history, showing how Russia and Europe forged a successful partnership that has continued to the present day. Space writer Brian Harvey provides an in-depth picture of how this European-Russian relationship evolved and what factors—scientific, political and industrial—propelled it over the decades. The history begins in the cold war period with the first collaborative ventures between the Soviet Union and European countries, primarily France, followed later by Germany and other European countries. Next, the chapters turn to the missions when European astronauts flew to Russian space stations, the Soyuz rocket made a new home in European territory in the South American jungle and science missions were flown to study deep space. Their climax is the joint mission to explore Mars, called ExoMars, which has already sent a mission to Mars. Through this close examination of these European-Russian efforts, readers will appreciate an altogether new perspective on the history of space exploration, no longer defined by competition, but rather by collaboration and cooperation.

The Perfect Bet Adam Kucharski 2016-05-05 Gamblers have been trying to figure out how to game the system since our ancestors first made wagers over dice fashioned from knucklebones: in revolutionary Paris, the 'martingale' strategy was rumoured to lead to foolproof success at roulette ; today, professional gamblers are using cutting-edge techniques to tilt the odds in their favour. Science is giving us the competitive edge over opponents, casinos and bookmakers. But is there such a thing as a perfect bet? The Perfect Bet looks beyond probability and statistics to examine how wagers have inspired a plethora of new disciplines - spanning chaos theory, machine learning and game theory - which are not just revolutionising gambling, but changing our fundamental notions about chance, randomness and luck. Explaining why poker is gaming's last bastion of human superiority over AI, how methods originally developed for the US nuclear programme are helping pundits predict sports results and why a new breed of algorithms are losing banks millions, The Perfect Bet has the inside track on any wager you'd care to place.

The Next 500 Years Christopher E. Mason 2021-04-20 An argument that we have a moral duty to colonize other planets and solar systems, and a plan for doing so. Inevitably, life on Earth will come to an end, whether by climate disaster, or by cataclysmic war, or when the sun runs out of fuel in a few billion years. To avoid extinction, will we have to find a new home planet, perhaps even a new solar system, to inhabit? In this provocative and fascinating book, Christopher Mason argues that we have a moral duty to do just that. Because we are the only species aware that life on Earth has an expiration date, we have a responsibility to act as the shepherd of lifeforms--not only for our species but for all species on which we depend and for those still to come (by

accidental or designed evolution). Mason argues that the same capacity for ingenuity that has enabled us to build rockets and land on other planets can be applied to redesigning biology so that we can sustainably inhabit those planets. And he lays out a 500-year plan for undertaking the massively ambitious project of reengineering human genetics for life in other worlds.

The Borrowed Chan Ho-Kei 2017-01-03 A legendary detective uncovers Hong Kong's darkest crimes: "An ambitious narrative brilliantly executed . . . What an achievement!" (John Burdett, author of *Bangkok 8*). From award-winning author Chan Ho-kei, *The Borrowed* tells the story of Kwan Chun-dok, a detective who's worked in Hong Kong fifty years. Across six decades of Hong Kong's volatile history, the narrative follows Kwan through the Leftist Riot of 1967, when a bombing plot threatens many lives; the conflict between the HK Police and ICAC (Independent Commission Against Corruption) in 1977; the Tiananmen Square Massacre in 1989; the Handover in 1997; and the present day of 2013, when Kwan is called on to solve his final case, the murder of a local billionaire, in a modern Hong Kong that increasingly resembles a police state. Along the way we meet Communist rioters, ultra-violent gangsters, pop singers enmeshed in the high-stakes machinery of star-making, and a people always caught in the shifting balance of political power, whether in London or Beijing. Tracing a broad historical arc, *The Borrowed* reveals just how closely everything is connected, how history repeats itself, and how we have come full circle to repeat the political upheaval and societal unrest of the past. It is a gripping, brilliantly constructed novel from a talented new voice.

Intel Trinity, The Michael S. Malone 2014-07-15 Based on unprecedented access to the corporation's archives, *The Intel Trinity* is the first full history of Intel Corporation—the essential company of the digital age—told through the lives of the three most important figures in the company's history: Robert Noyce, Gordon Moore, and Andy Grove. Often hailed the "most important company in the world," Intel remains, more than four decades after its inception, a defining company of the global digital economy. The legendary inventors of the microprocessor—the single most important product in the modern world—Intel today builds the tiny "engines" that power almost every intelligent electronic device on the planet. But the true story of Intel is the human story of the trio of geniuses behind it. Michael S. Malone reveals how each brought different things to Intel, and at different times. Noyce, the most respected high tech figure of his generation, brought credibility (and money) to the company's founding; Moore made Intel the world's technological leader; and Grove, has relentlessly driven the company to ever-higher levels of success and competitiveness. Without any one of these figures, Intel would never have achieved its historic success; with them, Intel made possible the personal computer, Internet, telecommunications, and the personal electronics revolutions. *The Intel Trinity* is not just the story of Intel's legendary past; it also offers an analysis of the formidable challenges that lie ahead as the company struggles to maintain its dominance, its culture, and its legacy. With eight pages of black-and-white photos.

Happiness Darrin M. McMahon 2006 *Happiness: A History* draws on a multitude of sources, including art and architecture, poetry and scripture, music and theology, and literature and myth, to offer a sweeping history of man's most elusive yet coveted goal. Ranging from psychology to genetics to the invention of the "smiley face," McMahon follows the great pursuit of happiness through to the present day, showing how our modern search continues to generate new forms of pleasure, but also new forms of pain. Reprint.

See What I Have Done Sarah Schmidt 2017-08-01 "One of America's most notorious murder cases inspires this feverish debut" novel that goes inside the mind of Lizzie Borden (*The Guardian*). On the morning of August 4, 1892, Lizzie Borden calls out to her maid: Someone's killed Father. The brutal ax-murder of Andrew and Abby Borden in their home in Fall River, Massachusetts, leaves little evidence and many unanswered questions. In this riveting debut novel, Sarah Schmidt reimagines the day of the infamous murders as an intimate story of a family devoid of love. While neighbors struggle to understand why anyone would want to harm the respected Borden family, those close to the family have a different tale to tell: of a father with an explosive temper, a spiteful stepmother, and two spinster sisters desperate for their independence. As the police search for clues, Lizzie's memories of that morning flash in scattered fragments. Had she been in the barn or the pear arbor to escape the stifling heat of the house? When did she last speak to her stepmother? Were they really gone and would everything be better now? Shifting among the perspectives of the unreliable Lizzie, her older sister Emma, the housemaid Bridget, and the enigmatic stranger Benjamin, the events of that fateful day are slowly revealed through a high-wire feat of storytelling.

Train to Pakistan Khushwant Singh 2016-02 Set in a village on the border between India and Pakistan, *'Train to Pakistan'* is a classic of modern Indian

fiction.

Profoundly Disturbing Joe Bob Briggs 2003 What the critics are saying: "Beyond the bounds of depravity!"—London Evening Standard "Despicable . . . ugly and obscene . . . a degrading, senseless misuse of film and time." —The Los Angeles Times "People are right to be shocked." —The New Yorker From the murky depths can come the most extraordinary things. . . . Profoundly Disturbing examines the underground cult movies that have—unexpectedly and unintentionally—revolutionized the way that all movies would be made. Called "exploitation films" because they often exploit our most primal fears and desires, these overlooked movies pioneered new cinematographic techniques, subversive narrative structuring, and guerrilla marketing strategies that would eventually trickle up into mainstream cinema. In this book Joe Bob Briggs uncovers the most seminal cult movies of the twentieth century and reveals the fascinating untold stories behind their making. Briggs is best known as the cowboy-hat wearing, Texas-drawling host of Joe Bob's Drive-in Theater and Monstervision, which ran for fourteen years on cable TV. His goofy, disarming take offers a refreshingly different perspective on movies and film making. He will make you laugh out loud but then surprise you with some truly insightful analysis. And, with more than three decades of immersion in the cult movie business, Briggs has a wealth of behind-the-scenes knowledge about the people who starred in, and made these movies. There is no one better qualified or more engaging to write about this subject. All the subgenres in cult cinema are covered, with essays centering around twenty movies including *Triumph of the Will* (1938), *Mudhoney* (1965), *Night of the Living Dead* (1967), *Deep Throat* (1973), *The Texas Chain Saw Massacre* (1974), *Drunken Master* (1978), and *Crash* (1996). Accompanying the text are dozens of capsule reviews providing ideas for related films to discover, as well as kitschy and fun archival film stills. An essential reference and guide to this overlooked side of cinema, Profoundly Disturbing should be in the home of every movie fan, especially those who think they've seen everything.

The Lucifer Principle Howard Bloom 2013-11-01 "A philosophical look at the history of our species which alternated between fascinating and frightening . . . like reading Dean Koontz or Stephen King." —Rocky Mountain News The Lucifer Principle is a revolutionary work that explores the intricate relationships among genetics, human behavior, and culture to put forth the thesis that "evil" is a by-product of nature's strategies for creation and that it is woven into our most basic biological fabric. In a sweeping narrative that moves lucidly among sophisticated scientific disciplines and covers the entire span of the earth's—as well as mankind's—history, Howard Bloom challenges some of our most popular scientific assumptions. Drawing on evidence from studies of the most primitive organisms to those on ants, apes, and humankind, the author makes a persuasive case that it is the group, or "superorganism," rather than the lone individual that really matters in the evolutionary struggle. But biology is not destiny, and human culture is not always the buffer to our most primitive instincts we would like to think it is. In these complex threads of thought lies the Lucifer Principle, and only through understanding its mandates will we be able to avoid the nuclear crusades that await us in the twenty-first century. "A revolutionary vision of the relationship between psychology and history, The Lucifer Principle will have a profound impact on our concepts of human nature. It is astonishing that a book of such importance could be such a pleasure to read."—Elizabeth F. Loftus, author of *Memory*

Rocket and Spacecraft Propulsion Martin J. L. Turner 2006-08-29 The revised edition of this practical, hands-on book discusses the launch vehicles in use today throughout the world, and includes the latest details on advanced systems being developed, such as electric and nuclear propulsion. The author covers the fundamentals, from the basic principles of rocket propulsion and vehicle dynamics through the theory and practice of liquid and solid propellant motors, to new and future developments. He provides a serious exposition of the principles and practice of rocket propulsion, from the point of view of the user who is not an engineering specialist.

Eccentric Orbits John Bloom 2016-06-07 "Good corporate drama . . . an enlightening narrative of how new communications infrastructures often come about." —The Economist, "A Book of the Year 2016" In the early 1990s, Motorola developed a revolutionary satellite system called Iridium that promised to be its crowning achievement. Its constellation of 66 satellites in polar orbit was a mind-boggling technical accomplishment, surely the future of communication. The only problem was that Iridium the company was a commercial disaster. Only months after launching service, it was \$11 billion in debt, burning through \$100 million a month and crippled by baroque rate plans and agreements that forced calls through Moscow, Beijing, Fucino, Italy, and

elsewhere. Bankruptcy was inevitable—the largest to that point in American history. And when no real buyers seemed to materialize, it looked like Iridium would go down as just a “science experiment.” That is, until Dan Colussy got a wild idea. Colussy, a former head of Pan-Am now retired and working on his golf game in Palm Beach, heard about Motorola’s plans to “de-orbit” the system and decided he would buy Iridium and somehow turn around one of the biggest blunders in the history of business. Impeccably researched and wonderfully told, *Eccentric Orbits* is a rollicking, unforgettable tale of technological achievement, business failure, the military-industrial complex, and one of the greatest deals of all time. “Deep reporting put forward with epic intentions . . . a story that soars and jumps and dives and digresses . . . [A] big, gutsy, exciting book.” —The Wall Street Journal, “A Top 10 Nonfiction Book of 2016” “Spellbinding . . . A tireless researcher, Bloom delivers a superlative history . . . A tour de force.” —Kirkus Reviews (starred review)

Reading for the IELTS Mohammad Ali Salmani Nodoushan

*Eccentric Orbits* John Bloom 2016-06-14 In the early 1990s, Motorola, the legendary American company, made a huge gamble on a revolutionary satellite telephone system called Iridium. Light-years ahead of anything previously put into space, and built on technology developed for Ronald Reagan's 'Star Wars,' Iridium's constellation of sixty-six satellites in six evenly spaced orbital planes meant that at least one satellite was always overhead. Iridium was a mind-boggling technical accomplishment, surely the future of communication. The only problem was that Iridium was also a commercial disaster. Only months after launching service, it was \$11 billion in debt, burning through \$100 million a month and bringing in almost no revenue. Bankruptcy was inevitable - the largest to that point in American history. It looked like Iridium would go down as just a 'science experiment.' That is, until Dan Colussy got a wild idea. Colussy, a former CEO of Pan Am, heard about Motorola's plans to 'de-orbit' the system and decided he would buy Iridium and somehow turn around one of the biggest blunders in the history of business. *Eccentric Orbits* masterfully traces the birth of Iridium and Colussy's tireless efforts to stop it from being destroyed, from meetings with his motley investor group, to the Clinton White House, to the Pentagon, to the hunt for customers in special ops, shipping, aviation, mining, search and rescue. Impeccably researched and wonderfully told, *Eccentric Orbits* is a rollicking, unforgettable tale of technological achievement, business failure, the military-industrial complex and one of the greatest deals of all time.

*Bandit* Molly Brodak 2016-10-06 'Raw, poetic and compulsively readable ... I can't wait to buy a copy for everyone I know.' Kathryn Stockett, author of *The Help* The summer she turned thirteen, Molly Brodak's father was arrested for robbing eleven banks. In time, the image she held of him would unravel further, as more and more unexpected facets of his personality came to light. *Bandit* is her attempt to discover what, exactly, is left, when the most fundamental relationship of your life turns out to have been built on falsehoods. It is also a scrupulously honest account of learning how to trust again, and to rebuild the very idea of family from scratch. Refusing to fence off the trickier sides of her father's character, Brodak tries to find, through crystalline, spellbinding prose, a version of him that does not rely on the easy answers but allows him to be: an unknowable and incomprehensible whole – who is also her father. Unforgettable, moving, and utterly relatable, *Bandit* is a story of the unpredictable complexity of family.

*Satellites* Michel Capderou 2006-01-16 This useful resource deals with satellite orbits, showing how the wide range of available orbits can be used in communications, positioning, remote-sensing, meteorology, and astronomy.

*Cutting the Cord* Martin Cooper 2021-01-05 One of Time Magazine's Top 100 Inventors in History shares an insider's story of the cellphone, how it changed the world—and a view of where it's headed. While at Motorola in the 1970s, wireless communications pioneer Martin Cooper invented the first handheld mobile phone. But the cellphone as we know it today almost didn't happen. Now, in *Cutting the Cord*, Cooper takes readers inside the stunning breakthroughs, devastating failures, and political battles in the quest to revolutionize—and control—how people communicate. It's a dramatic tale involving brilliant engineers, government regulators, lobbyists, police, quartz crystals, and a horse. Industry skirmishes sparked a political war in Washington to prevent a monopolistic company from dominating telecommunications. The drama culminated in the first-ever public call made on a handheld, portable telephone—by Cooper himself. The story of the cell phone has much to teach about innovation, strategy, and management. But the story of wireless communications is far from finished. This book also relates Cooper's vision of the future. From the way we work and the way children learn to the ways we

approach medicine and healthcare, advances in the cellphone will continue to reshape our world for the better.

Hue 1968 Mark Bowden 2018-09-06 In mid-1967, the North Vietnam leadership had started planning an offensive intended to win the war in a single stroke. Part military action and part popular uprising, the effort included attacks across South Vietnam, but the most dramatic and successful would be the capture of Hu?, the country's intellectual and cultural capital. At 2:30 a.m. on January 31, the first day of the Lunar New Year (called Tet), ten thousand National Liberation Front troops descended from hidden camps and -- led by locals like eighteen-year-old village girl and Viet Cong member Che Thi Mung -- surged across the city of 140,000. By morning, all of Hu? was in Front hands save for two small military outposts. The American commanders in country and politicians in Washington refused to believe the size and scope of the Front's presence. Captain Chuck Meadows was ordered to lead his 160-marine Golf Company in the first attempt to reenter Hu? later that day. Facing thousands of entrenched enemy troops, he reported: "We are outgunned and outmanned." After several futile and deadly days, Lieutenant Colonel Ernie Cheatham would finally come up with a strategy to retake the city, block by block and building by building, in some of the most intense urban combat since World War II. With unprecedented access to war archives in the United States and Vietnam and interviews with participants from both sides, Bowden narrates each stage of this crucial battle through multiple points of view. Played out over twenty-four days of terrible fighting and ultimately costing more than ten thousand combatant and civilian lives, the Battle of Hue was by far the bloodiest of the entire war. When it ended, the American debate over the war was never again about winning, only about how to leave.

The Path Michael Puett 2016-04-05 For the first time an award-winning Harvard professor shares the lessons from his wildly popular course on classical Chinese philosophy, showing you how these ancient ideas can guide you on the path to a good life today. The lessons taught by ancient Chinese philosophers surprisingly still apply, and they challenge our fundamental assumptions about how to lead a fulfilled, happy, and successful life. Self-discovery, it turns out, comes through looking outward, not inward. Power comes from holding back. Good relationships come from small gestures. Spontaneity comes from practice. And excellence comes from what you choose to do, not your "natural" abilities. Counterintuitive. Countercultural. Even revolutionary. These powerful ideas have made Professor Michael Puett's course the third most popular at Harvard University in recent years, with enrollment surging every year since it was first offered in 2006. It's clear students are drawn by a bold promise Professor Puett makes on the first day of class: "These ideas will change your life." Now he offers his course to the world.

The International Handbook of Space Technology Malcolm Macdonald 2014-07-08 This comprehensive handbook provides an overview of space technology and a holistic understanding of the system-of-systems that is a modern spacecraft. With a foreword by Elon Musk, CEO and CTO of SpaceX, and contributions from globally leading agency experts from NASA, ESA, JAXA, and CNES, as well as European and North American academics and industrialists, this handbook, as well as giving an interdisciplinary overview, offers, through individual self-contained chapters, more detailed understanding of specific fields, ranging through: · Launch systems, structures, power, thermal, communications, propulsion, and software, to · entry, descent and landing, ground segment, robotics, and data systems, to · technology management, legal and regulatory issues, and project management. This handbook is an equally invaluable asset to those on a career path towards the space industry as it is to those already within the industry.

The Earth Is Weeping Peter Cozzens 2018-03

Insidious Intent Val McDermid 2017-08-24 'One of the most surprising twists you'll read this year. Outstanding' Irish Independent 'Engrossing . . . a colossal reminder of just why McDermid has been the queen of crime for three decades' Heat 'Murdered people don't kill themselves . . .' A quiet night on a country road. The stillness shattered by a car engulfed in flames, and a burned body discovered in the driver's seat. As the investigation unfolds, DCI Carol Jordan and psychological profiler Tony Hill quickly realise that this is more than just a tragic accident. And so begins the hunt for a truly terrifying killer, someone who believes he is invisible, untraceable and untouchable. As other victims are found to have met the same terrible fate, and with more women at risk, Tony and Carol are drawn into a dark and twisted web of fear and revenge that will force them to question their own ideas of justice . . . A pulse-pounding mystery from the number one bestseller. If you enjoyed Insidious Intent, don't miss the first in a new series from the Queen of Crime. 1979 is out now, introducing the unforgettable Allie Burns. \_\_\_\_\_ Praise for Queen of Crime Val McDermid: 'It grabs the reader by the throat and

never lets go' Daily Mail 'So gripping it puts your life on hold' The Times 'As good a psychological thriller as it is possible to get' Sunday Express 'One of today's most accomplished crime writers' Literary Review 'McDermid remains unrivalled' Observer 'No one can tell a story like she can' Daily Express She Came From Beyond! Nadine Darling 2015-10-01 Easy Hardwick has it made. At just about thirty, she's got a tumbledown cottage in small-town Oregon and an uncomplicated acting gig as the space-babe eye candy on a sci-fi parody show. She spends her downtime online, bickering with fans and fellow culture vultures about film trivia and relishing her minor-but-satisfying celebrity. Enter Harrison. What begins as a jocular online flirtation spills into a messy IRL affair, and Easy finds herself pregnant with twins and sharing her home with the love of her life...plus the teenage daughter, baby son, and slightly unhinged, soon-to-be-ex wife she kind of didn't totally know he had. Easy may play a space ditz in hot-pants on TV, but her voice is restlessly intelligent, negotiating the absurdities of a world lived onscreen and online and striving to make sense of heady problems: love affairs, ex-wives, teen girls, eating disorders, and whether cannibalistic flies count as zombies. Like the captive great white shark that sets Easy's story in motion, Nadine Darling's writing has got teeth. Her pointed, precise dialogue, empathetic insights, and live-wire observations elevate this novel from zany domestic drama to outlandish comic masterpiece.

Satellite Orbits Oliver Montenbruck 2012-12-06 This modern presentation guides readers through the theory and practice of satellite orbit prediction and determination. Starting from the basic principles of orbital mechanics, it covers elaborate force models as well as precise methods of satellite tracking. The accompanying CD-ROM includes source code in C++ and relevant data files for applications. The result is a powerful and unique spaceflight dynamics library, which allows users to easily create software extensions. An extensive collection of frequently updated Internet resources is provided through WWW hyperlinks.

Afterglow Eileen Myles 2018-02-01 Skinny's Book of the Year, 2018 In 1990, Myles chose Rosie from a litter on the street, and their connection instantly made an indelible impact on the writer's way of being. Over the course of sixteen years together, Myles was devoted to the pit bull and their linked quality of life. And starting from the emptiness following Rosie's death, Afterglow launches a playful and incisive investigation into the mostly mutually beneficial, sometimes reprehensible power dynamics between pet and pet-owner. At the same time, it reimagines Myles's experiences with alcoholism and recovery, intimacy and mourning, celebrity and politics, spirituality and family history, while joyously transcending the parameters of memoir. Moving from an imaginary talk show where Rosie is interviewed by Myles's childhood puppet, to a critical reenactment of the night Rosie mated with another pit bull; from shimmering poetic transcriptions of video footage taken during their walks, to Rosie's final enlightened narration from the afterlife, this totally singular text combines elements of science fiction, screenplay, monologue, and lucid memory to get to the heart of how and why we dedicate our existence to our dogs.

The Black Star Passes John Campbell 2011-01-24 The arrival of an unseen dark sun whose attendant marauders aimed at the very end of civilization in this Solar System....

The Retreat of Western Liberalism Edward Luce 2017-04-21 'A panorama of the unravelling world order as riveting as any beach read' New Yorker 'Read this book: in the three hours it takes you will get a new, bracing and brilliant understanding of the dangers we in the democratic West now face. Luce is one of the smartest journalists working today, and his perceptions are priceless' Jane Mayer, staff writer on the New Yorker 'No one was more prescient about the economic malaise and popular resentment that has hit the United States than Ed Luce in his previous book, Time to Start Thinking. His new book, Retreat of Western Liberalism, broadens that picture to cover the Western world. It is a must read for anyone trying to make sense of the waves of populism and nationalism we face today' Liaquat Ahamed In his widely acclaimed book Time to Start Thinking, Financial Times columnist and commentator Edward Luce charted the course of American economic and geopolitical decline, proving to be a prescient voice on our current social and political turmoil. In The Retreat of Western Liberalism, Luce makes a larger statement about the weakening of western hegemony and the crisis of democratic liberalism - of which Donald Trump and his European counterparts are not the cause, but a symptom. Luce argues that we are on a menacing trajectory brought about by ignorance of what it took to build the West, arrogance towards society's losers, and complacency about our system's durability - attitudes that have been emerging since the fall of the Berlin Wall, treated by the West as an absolute triumph over the East. We cannot move forward

without a clear diagnosis of what has gone wrong. Luce contrasts Western democratic and economic ideals, which rest on an assumption of linear progress, with more cyclical views of economic strength - symbolized by the nineteenth-century fall and present-day rise of the Chinese and Indian economies - and with the dawn of a new multipolar age. Combining on-the-ground reporting with intelligent synthesis of the vast literature already available, Luce offers a detailed projection of the consequences of the Trump administration and a forward-thinking analysis of what those who believe in enlightenment values must do to defend them from the multiple onslaughts they face in the coming years.

War Dogs Guy Lawson 2016-07-26 Previously published as Arms and the Dudes.

The Design and Engineering of Curiosity Emily Lakdawalla 2018-03-27 This book describes the most complex machine ever sent to another planet: Curiosity. It is a one-ton robot with two brains, seventeen cameras, six wheels, nuclear power, and a laser beam on its head. No one human understands how all of its systems and instruments work. This essential reference to the Curiosity mission explains the engineering behind every system on the rover, from its rocket-powered jetpack to its radioisotope thermoelectric generator to its fiendishly complex sample handling system. Its lavishly illustrated text explains how all the instruments work -- its cameras, spectrometers, sample-cooking oven, and weather station -- and describes the instruments' abilities and limitations. It tells you how the systems have functioned on Mars, and how scientists and engineers have worked around problems developed on a faraway planet: holey wheels and broken focus lasers. And it explains the grueling mission operations schedule that keeps the rover working day in and day out.

Sorry to Disrupt the Peace Patty Yumi Cottrell 2017-06-24 Helen Moran is thirty-two years old, single, childless, college-educated, and partially employed as a guardian of troubled young people in New York. She's accepting a delivery from IKEA in her shared studio apartment when her uncle calls to break the news: Helen's adoptive brother is dead. According to the internet, there are six possible reasons why her brother might have killed himself. But Helen knows better: she knows that six reasons is only shorthand for the abyss. Helen also knows that she alone is qualified to launch a serious investigation into his death, so she purchases a one-way ticket to Milwaukee. There, as she searches her childhood home and attempts to uncover why someone would choose to die, she will face her estranged family, her brother's few friends, and the overzealous grief counselor, Chad Lambo; she may also discover what it truly means to be alive. A bleakly comic tour de force that's by turns poignant, uproariously funny, and viscerally unsettling, this debut novel has shades of Bernhard, Beckett and Bowles—and it announces the singular voice of Patty Yumi Cottrell.

How Many Licks? Aaron Santos 2009-08-25 How many licks to the center of a Tootsie Pop? How many people are having sex at this moment? How long would it take a monkey on a typewriter to produce the plays of Shakespeare? For all those questions that keep you up at night, here's the way to answer them. And the beauty of it is that it's all approximate! Using Enrico Fermi's theory of approximation, Santos brings the world of numbers into perspective. For puzzle junkies and trivia fanatics, these 70 word puzzles will show the reader how to take a bit of information, add what they already know, and extrapolate an answer. Santos has done the impossible: make math and the multiple possibilities of numbers fun and informative. Can you really cry a river? Is it possible to dig your way out of jail with just a teaspoon and before your life sentence is up? Taking an academic subject and using it as the prism to view everyday off-the-wall questions as math problems to be solved is a natural step for the lovers of sudoku, cryptograms, word puzzles, and other thought-provoking games.

Evidence of Love John Bloom 2016-12-20 The "fascinating" true story behind the HBO Max and Hulu series about Texas housewife Candy Montgomery and the bizarre murder that shocked a community (Los Angeles Times Book Review). Candy Montgomery and Betty Gore had a lot in common: They sang together in the Methodist church choir, their daughters were best friends, and their husbands had good jobs working for technology companies in the north Dallas suburbs known as Silicon Prairie. But beneath the placid surface of their seemingly perfect lives, both women simmered with unspoken frustrations and unanswered desires. On a hot summer day in 1980, the secret passions and jealousies that linked Candy and Betty exploded into murderous rage. What happened next is usually the stuff of fiction. But the bizarre and terrible act of violence that occurred in Betty's utility room that morning was all too real. Based on exclusive interviews with the Gore and Montgomery families, Edgar Award finalist Evidence of Love is the "superbly written" account of a

gruesome tragedy and the trial that made national headlines when the defendant entered the most unexpected of pleas: not guilty by reason of self-defense (Fort Worth Star-Telegram). Adapted into the Emmy and Golden Globe Award-winning television movie *A Killing in a Small Town*—as well as the new limited series *Candy* on Hulu and *Love and Death* on HBO Max—this chilling tale of sin and savagery will “fascinate true crime aficionados” (Kirkus Reviews).

Atmospheric Evolution on Inhabited and Lifeless Worlds David C. Catling 2017-03-31 A comprehensive and authoritative text on the formation and evolution of planetary atmospheres, for graduate-level students and researchers.

Rare Earth Peter D. Ward 2007-05-08 What determines whether complex life will arise on a planet, or even any life at all? Questions such as these are investigated in this groundbreaking book. In doing so, the authors synthesize information from astronomy, biology, and paleontology, and apply it to what we know about the rise of life on Earth and to what could possibly happen elsewhere in the universe. Everyone who has been thrilled by the recent discoveries of extrasolar planets and the indications of life on Mars and the Jovian moon Europa will be fascinated by *Rare Earth*, and its implications for those who look to the heavens for companionship.

Sophie's World Jostein Gaarder 2010-07-15 The international bestseller about life, the universe and everything. When 14-year-old Sophie encounters a mysterious mentor who introduces her to philosophy, mysteries deepen in her own life. Why does she keep getting postcards addressed to another girl? Who is the other girl? And who, for that matter, is Sophie herself? To solve the riddle, she uses her new knowledge of philosophy, but the truth is far stranger than she could have imagined. A phenomenal worldwide bestseller, *SOPHIE'S WORLD* sets out to draw teenagers into the world of Socrates, Descartes, Spinoza, Hegel and all the great philosophers. A brilliantly original and fascinating story with many twists and turns, it raises profound questions about the meaning of life and the origin of the universe.

High Stakes, No Prisoners Charles Ferguson 2001 Charles Ferguson's hilarious, hard-boiled journey into the heart of high-tech darkness has become the signal book of the start-up generation. Charles Ferguson started Vermeer Technologies and turned his very big idea into FrontPage, the first software product for creating and managing a website. Ferguson took a good idea, started a company, and sold it to Microsoft for \$133 million -- all in less than two years. *High Stakes, No Prisoners* is both a blistering inside account of how he did it and a brilliant tour of the brutally competitive and utterly unique world of Silicon Valley. - Publisher.

Crucibles Bernard Jaffe 2012-07-12 Classic popular account of the great chemists Trevisan, Paracelsus, Avogadro, Mendeléeff, the Curies, Thomson, Lavoisier, and others, up to A-bomb research and recent work with subatomic particles. 20 illustrations.

Locas Yxta Maya Murray 1997 A tale of East L.A. gang life revolves around two teenage girls coming of age in a brutal, male-dominated world

The Cosmic Wisdom of Joe Bob Briggs Joe Bob Briggs 1990 Joe Bob Briggs, the sage of Grapevine, Texas, looks at America, and he doesn't like what he sees.

The Best Minds of My Generation Allen Ginsberg 2017-04-04 A unique history of the Beats, in the words of the movement's most central member, Allen Ginsberg, based on a seminal series of his lectures In 1977, twenty years after the publication of his landmark poem 'Howl' and Jack Kerouac's *On the Road*, Allen Ginsberg decided it was time to teach a course on the literary history of the Beat Generation. Through this course, Ginsberg saw an opportunity to present a complete history of Beat Literature and also to record and preserve his own personal stories and memories, ones that might have otherwise been lost to history. The result was a deeply intimate, candid and illuminating set of lectures, which form the basis of this book. Compiled and edited by renowned Beat scholar Bill Morgan, and with an introduction by Anne Waldman, *The Best Minds of My Generation* presents the lectures in edited form, revealing the Beats as Ginsberg knew them: friends, confidantes, literary mentors, and fellow revolutionaries. In *The Best Minds of My Generation*, Ginsberg gives us the convoluted origin story of the "Beat" idea, recounts anecdotes of meeting Kerouac, Burroughs, and other figures for the first time, elucidates the importance of music, and particularly jazz rhythms, to Beat writing, discusses their many influences - literary, pharmaceutical and spiritual - and paints a portrait of a group who were leading a literary revolution. A unique document that works both as historical record and unconventional memoir,

The Best Minds of My Generation is a vivid, personal and eye-opening look at one of the most important literary movements of the twentieth century.

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