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How I Killed Pluto and Why It Had It Coming

Spaceman

A professor of astrophysics relates the inference of ultracompressed states of matter from signals emitted in specific areas of the universe and explains the phenomena relating to pulsars and black holes

The Spanish Tragedie

Orbiting at the edge of the outer Solar System, Pluto is an intriguing object in astronomy. Since the fascinating events surrounding its discovery, it has helped increase our understanding of the origin and evolution of the Solar System, and raised questions about the nature and benefits of scientific classification. This is a timely and exciting account of Pluto and its satellites. The author uses Pluto as a case study to discuss discovery in astronomy, how remote astronomical bodies are investigated, and the role of classification in science by discussing Pluto's recent classification as a dwarf planet. Besides Pluto, the book also explores the rich assortment of bodies that constitute the Edgeworth-Kuiper Belt, of which Pluto is the largest innermost member. Richly illustrated, this text is written for general readers, amateur astronomers and students alike. Boxed text provides more advanced information especially for readers who wish to delve deeper into the subject.

When the Earth Had Two Moons

From the author of *Astrophysics for People in a Hurry* and the host of *Cosmos: A Spacetime Odyssey*, a memoir about growing up and a young man's budding scientific curiosity. This is the absorbing story of Neil deGrasse Tyson's lifelong fascination with the night sky, a restless wonder that began some thirty years ago on the roof of his Bronx apartment building and eventually led him to become the director of the Hayden Planetarium. A unique chronicle of a young man who at one time was both nerd and jock, Tyson's memoir could well inspire other similarly curious youngsters to pursue their dreams. Like many athletic kids he played baseball, won medals in track and swimming, and was captain of his high school wrestling team. But at the same time he was setting up a telescope on winter nights, taking an advanced astronomy course at the Hayden Planetarium, and spending a summer vacation at an astronomy camp in the Mojave Desert. Eventually, his scientific curiosity prevailed, and he went on to graduate in physics from Harvard and to earn a Ph.D. in astrophysics from Columbia. There followed postdoctoral research at Princeton. In 1996, he became the director

of the Hayden Planetarium, where some twenty-five years earlier he had been awed by the spectacular vista in the sky theater. Tyson pays tribute to the key teachers and mentors who recognized his precocious interests and abilities, and helped him succeed. He intersperses personal reminiscences with thoughts on scientific literacy, careful science vs. media hype, the possibility that a meteor could someday hit the Earth, dealing with society's racial stereotypes, what science can and cannot say about the existence of God, and many other interesting insights about science, society, and the nature of the universe. Now available in paperback with a new preface and other additions, this engaging memoir will enlighten and inspire an appreciation of astronomy and the wonders of our universe.

Frozen Star

Breathtaking full-color photography complement an intriguing exploration of outer space, in a visual look at modern astronomy that features pictures from the Mars Pathfinder and Voyager probes, telescope images from around the world, and images from the Hubble telescope.

Encounter in Space

When the Second World War broke out in September 1939, it came as no surprise to the children of Germany: the Nazis had been preparing them for a war ever since they had come to power in 1933. To British children it was an altogether different matter. Children all over Britain were deeply affected by the war: many were separated from their parents by evacuation or bereavement; all had to 'make do and mend' with clothes and toys; and some even died while contributing to the war effort at home. In this moving and often amusing account, Mike Brown describes what life was like on the Home Front during the war from a child's point of view. His fully illustrated narrative includes details of evacuation, rationing, coping with gas masks and air raids, entertainment and the important - and often dangerous - roles of the Boy Scouts and Girl Guides. This photographic history pays tribute to the generation of girls and boys who grew up under the shadow of the Second World War.

A Certain Amount of Madness

The memoir of the 'Brighton Bomber', Patrick Magee, chronicling his early years, time in the IRA, and later involvement in the peace process.

How I Killed Pluto and Why It Had It Coming

Looks at the discovery of the true nature and immense size of the universe, tracing the decades of work done by a select group of scientists to make it possible.

Incredible Stories from Space

A memoir-in-essays from disability advocate and creator of the Instagram account @sitting_pretty Rebekah Taussig, processing a lifetime of memories to paint a beautiful, nuanced portrait of a body that looks and moves differently than most. Growing up as a paralyzed girl during the 90s and early 2000s, Rebekah Taussig only saw disability depicted as something monstrous (The Hunchback of Notre Dame), inspirational (Helen Keller), or angelic (Forrest Gump). None of this felt right; and as she got older, she longed for more stories that allowed disability to be complex and ordinary, uncomfortable and fine, painful and fulfilling.

Writing about the rhythms and textures of what it means to live in a body that doesn't fit, Rebekah reflects on everything from the complications of kindness and charity, living both independently and dependently, experiencing intimacy, and how the pervasiveness of ableism in our everyday media directly translates to everyday life. Disability affects all of us, directly or indirectly, at one point or another. By exploring this truth in poignant and lyrical essays, Taussig illustrates the need for more stories and more voices to understand the diversity of humanity. *Sitting Pretty* challenges us as a society to be patient and vigilant, practical and imaginative, kind and relentless, as we set to work to write an entirely different story.

How I Killed Pluto and Why It Had It Coming

The New York Times bestseller: "You gotta read this. It is the most exciting book about Pluto you will ever read in your life." —Jon Stewart When the Rose Center for Earth and Space at the American Museum of Natural History reclassified Pluto as an icy comet, the New York Times proclaimed on page one, "Pluto Not a Planet? Only in New York." Immediately, the public, professionals, and press were choosing sides over Pluto's planethood. Pluto is entrenched in our cultural and emotional view of the cosmos, and Neil deGrasse Tyson, award-winning author and director of the Rose Center, is on a quest to discover why. He stood at the heart of the controversy over Pluto's demotion, and consequently Plutophiles have freely shared their opinions with him, including endless hate mail from third-graders. With his inimitable wit, Tyson delivers a minihistory of planets, describes the oversized characters of the people who study them, and recounts how America's favorite planet was ousted from the cosmic hub.

The Sky Is Not the Limit

This book recounts the epic saga of how we as human beings have come to understand the Solar System. The story of our exploration of the heavens, Peter Bond reminds us, began thousands of years ago, with the naked-eye observations of the earliest scientists and philosophers. Over the centuries, as our knowledge and understanding inexorably broadened and deepened, we faltered many times, frequently labored under misconceptions, and faced seemingly insurmountable obstacles to understanding. Yet, despite overwhelming obstacles, a combination of determined observers, brilliant thinkers, courageous explorers, scientists and engineers has brought us, particularly over the last five decades, into a second great age of human discovery. At our present level of understanding, some fifty years into the Space Age, the sheer volume of images and other data being returned to us from space has only increased our appetite for more and more detailed information about the planets, moons, asteroids, and comets of the Solar System. Taking a much-needed overview of how we now understand these "distant worlds" in our cosmic neighborhood, Bond not only celebrates the extraordinary successes of planetary exploration, but reaffirms an important truth: For seekers of knowledge, there will always be more to explore. An astonishing saga of exploration In this much-needed overview of "where we stand today," Peter Bond describes the achievements of the astronomers, space scientists, and engineers who have made the exploration of our Solar System possible. A clearly written and compelling account of the Space Age, the book includes: • Dramatic accounts of the daring, resourcefulness, and ferocious competitive zeal of renowned as well as almost-forgotten space pioneers. • Clear explanations of the precursors to modern astronomy, including how ancient natural philosophers and observers first took the measure of the heavens. • More than a hundred informative photographs, maps, simulated scenarios, and technical illustrations--many of them in full color. • Information-dense appendices on the physical properties of our Solar System, as well as a comprehensive list of 50 years of Solar System missions. Organized into twelve chapters focused on the objects of

our exploration (the individual planets, our Moon, the asteroids and comets), Bond's text shows how the great human enterprise of space exploration may on occasion have faltered or wandered off the path, but taken as a whole amounts to one of the great triumphs of human civilization.

Inside Al-Qaeda and the Taliban

The astronomer who inadvertently triggered the "demotion" of Pluto in his effort to officially recognize the solar system's tenth planet describes the ensuing debates and public outcry while revealing the behind-the-scenes story of his discovery.

The Planet Factory

The Hunt for Planet X

Voyager 1 left the solar system in 2012; its sister craft, Voyager 2, will do so in 2015. The fantastic journey began in 1977, before the first episode of Cosmos aired. The mission was planned as a grand tour beyond the moon; beyond Mars, Jupiter, and Saturn; and maybe even into interstellar space. The fact that it actually happened makes this humanity's greatest space mission. In *The Interstellar Age*, award-winning planetary scientist Jim Bell reveals what drove and continues to drive the members of this extraordinary team.

Distant Worlds

Advance praise for Philip Plait's *Bad Astronomy* "Bad Astronomy is just plain good! Philip Plait clears up every misconception on astronomy and space you never knew you suffered from." --Stephen Maran, Author of *Astronomy for Dummies* and editor of *The Astronomy and Astrophysics Encyclopedia* "Thank the cosmos for the bundle of star stuff named Philip Plait, who is the world's leading consumer advocate for quality science in space and on Earth. This important contribution to science will rest firmly on my reference library shelf, ready for easy access the next time an astrologer calls." --Dr. Michael Shermer, Publisher of *Skeptic* magazine, monthly columnist for *Scientific American*, and author of *The Borderlands of Science* "Philip Plait has given us a readable, erudite, informative, useful, and entertaining book. *Bad Astronomy* is Good Science. Very good science" --James "The Amazing" Randi, President, James Randi Educational Foundation, and author of *An Encyclopedia of Claims, Frauds, and Hoaxes of the Occult and Supernatural* "Bad Astronomy is a fun read. Plait is wonderfully witty and educational as he debunks the myths, legends, and 'conspiracies' that abound in our society. 'The Truth Is Out There' and it's in this book. I loved it!" --Mike Mullane, Space Shuttle astronaut and author of *Do Your Ears Pop in Space?*

Sitting Pretty

The astronomer who inadvertently triggered the "demotion" of Pluto in his effort to officially recognize the solar system's tenth planet describes the ensuing debates and public outcry while revealing the behind-the-scenes story of his discovery.

How I Killed Pluto and Why It Had It Coming

Called "spellbinding" (Scientific American) and "thrilling a future classic of popular science" (PW), the up close, inside story of the greatest space exploration project of our time, New Horizons' mission to Pluto, as shared with David Grinspoon by mission leader Alan Stern and other key players. On July 14, 2015, something amazing happened. More than 3 billion miles from Earth, a small NASA spacecraft called New Horizons screamed past Pluto at more than 32,000 miles per hour, focusing its instruments on the long mysterious icy worlds of the Pluto system, and then, just as quickly, continued on its journey out into the beyond. Nothing like this has occurred in a generation—a raw exploration of new worlds unparalleled since NASA's Voyager missions to Uranus and Neptune—and nothing quite like it is planned to happen ever again. The photos that New Horizons sent back to Earth graced the front pages of newspapers on all 7 continents, and NASA's website for the mission received more than 2 billion hits in the days surrounding the flyby. At a time when so many think that our most historic achievements are in the past, the most distant planetary exploration ever attempted not only succeeded in 2015 but made history and captured the world's imagination. How did this happen? Chasing New Horizons is the story of the men and women behind this amazing mission: of their decades-long commitment and persistence; of the political fights within and outside of NASA; of the sheer human ingenuity it took to design, build, and fly the mission; and of the plans for New Horizons' next encounter, 1 billion miles past Pluto in 2019. Told from the insider's perspective of mission leader Dr. Alan Stern and others on New Horizons, and including two stunning 16-page full-color inserts of images, Chasing New Horizons is a riveting account of scientific discovery, and of how much we humans can achieve when people focused on a dream work together toward their incredible goal.

A Bride in the Bargain

Percy is confused. When he awoke after his long sleep, he didn't know much more than his name. His brain-fuzz is lingering, even after the wolf Lupa told him he is a demigod and trained him to fight. Somehow Percy managed to make it to the camp for half-bloods, despite the fact that he had to continually kill monsters that, annoyingly, would not stay dead. But the camp doesn't ring any bells with him. Hazel is supposed to be dead. When she lived before, she didn't do a very good job of it. When the Voice took over her mother and commanded Hazel to use her "gift" for an evil purpose, Hazel couldn't say no. Now, because of her mistake, the future of the world is at risk.

The Lover's Dictionary

Discovering Pluto is an authoritative account of the exploration of Pluto and its moons, from the first inklings of tentative knowledge through the exciting discoveries made during the flyby of the NASA New Horizons research spacecraft in July 2015. Co-author Dale P. Cruikshank was a co-investigator on the New Horizons mission, while co-author William Sheehan is a noted historian of the Solar System. Telling the tale of Pluto's discovery, the authors recount the grand story of our unfolding knowledge of the outer Solar System, from William Herschel's serendipitous discovery of Uranus in 1781, to the mathematical prediction of Neptune's existence, to Percival Lowell's studies of the wayward motions of those giant planets leading to his prediction of another world farther out. Lowell's efforts led to Clyde Tombaugh's heroic search and discovery of Pluto—then a mere speck in the telescope—at Lowell Observatory in 1930. Pluto was finally recognized as the premier body in the Kuiper Belt, the so-called third zone of our Solar System. The first zone contains the terrestrial planets (Mercury through Mars) and the asteroid belt; the second, the gas-giant planets Jupiter through Neptune. The third zone, holding Pluto and the rest of the Kuiper Belt, is the largest and most populous

region of the solar system. Now well beyond Pluto, New Horizons will continue to wend its lonely way through the galaxy, but it is still transmitting data, even today. Its ultimate legacy may be to inspire future generations to uncover more secrets of Pluto, the Solar System, and the Universe.

A Child's War

A myriad of authors, journalists, academics and analysts have attempted to analyse what drives Al-Qaeda and Taliban leaders and fighters. Syed Saleem Shahzad is the only one to have gone to their strongholds and asked them. Shahzad, a Pakistani investigative reporter, has a level of access to Al-Qaeda and the Taliban that Western journalists can only dream of. He has interviewed many top-level strategists and fighters in both movements on multiple occasions in Iraq, Afghanistan, Pakistan and Jordan. Here he uses first-hand accounts and his own local knowledge to build up a convincing picture of the aims and motivation of the leaders and fighters in radical Islamic movements. This is a version of the 'war on terror' that has never been told. It will fascinate anyone concerned with the strategy and tactics of the most controversial Islamic movements.

The Black Cat

Have you ever wondered what it would be like to find yourself strapped to a giant rocket that's about to go from zero to 17,500 miles per hour? Or to look back on Earth from outer space and see the surprisingly precise line between day and night? Or to stand in front of the Hubble Space Telescope, wondering if the emergency repair you're about to make will inadvertently ruin humankind's chance to unlock the universe's secrets? Mike Massimino has been there, and in *Spaceman* he puts you inside the suit, with all the zip and buoyancy of life in microgravity. Massimino's childhood space dreams were born the day Neil Armstrong set foot on the moon. Growing up in a working-class Long Island family, he catapulted himself to Columbia and then MIT, only to flunk his first doctoral exam and be rejected three times by NASA before making it through the final round of astronaut selection. Taking us through the surreal wonder and beauty of his first spacewalk, the tragedy of losing friends in the Columbia shuttle accident, and the development of his enduring love for the Hubble Telescope—which he and his fellow astronauts were tasked with saving on his final mission—Massimino has written an ode to never giving up and the power of teamwork to make anything possible. *Spaceman* invites us into a rare, wonderful world where science meets the most thrilling adventure, revealing just what having "the right stuff" really means.

Chasing New Horizons

By 1514, the reclusive cleric Nicolaus Copernicus had written and hand-copied an initial outline of his heliocentric theory—in which he defied common sense and received wisdom to place the sun, not the earth, at the center of our universe, and set the earth spinning among the other planets. Over the next two decades, Copernicus expanded his theory through hundreds of observations, while compiling in secret a book-length manuscript that tantalized mathematicians and scientists throughout Europe. For fear of ridicule, he refused to publish. In 1539, a young German mathematician, Georg Joachim Rheticus, drawn by rumors of a revolution to rival the religious upheaval of Martin Luther's Reformation, traveled to Poland to seek out Copernicus. Two years later, the Protestant youth took leave of his aging Catholic mentor and arranged to have Copernicus's manuscript published, in 1543, as *De*

revolutionibus orbium coelestium (On the Revolutions of the Celestial Spheres)-the book that forever changed humankind's place in the universe. In her elegant, compelling style, Dava Sobel chronicles, as nobody has, the conflicting personalities and extraordinary discoveries that shaped the Copernican Revolution. At the heart of the book is her play *And the Sun Stood Still*, imagining Rheticus's struggle to convince Copernicus to let his manuscript see the light of day. As she achieved with her bestsellers *Longitude* and *Galileo's Daughter*, Sobel expands the bounds of narration, giving us an unforgettable portrait of scientific achievement, and of the ever-present tensions between science and faith.

Heroes of Olympus: The Son of Neptune

In 1860s Seattle, a man with a wife could secure himself 640 acres of timberland. But because of his wife's untimely death, Joe Denton finds himself about to lose half of his claim. Still in mourning, his best solution is to buy one of those Mercer girls arriving from the East. A woman he'll marry in name but keep around mostly as a cook. Anna Ivey's journey west with Asa Mercer's girls is an escape from the griefs of her past. She's not supposed to be a bride, though, just a cook for the girls. But when they land, she's handed to Joe Denton and the two find themselves in a knotty situation. She refuses to wed him and he's about to lose his land. With only a few months left, can Joe convince this provoking--but beguiling--easterner to be his bride?

Underworld

14 years ago, Mike Resnick created a carefully constructed blueprint of Mankind's history -- social, political, economic, scientific, and religious -- for the next 18,000 years! A new foreword by best-selling author Raymond E. Feist and a chronology of Resnick's "Birthright Universe."

The Interstellar Age

Thomas Sankara was one of Africa's most important anti-imperialist leaders of the late 20th Century. His declaration that fundamental socio-political change would require a 'certain amount of madness' drove the Burkinabe Revolution and resurfaced in the country's popular uprising in 2014. This book looks at Sankara's political philosophies and legacies and their relevance today. Analyses of his synthesis of Pan-Africanism and humanist Marxist politics, as well as his approach to gender, development, ecology and decolonisation offer new insights to Sankarist political philosophies. Critical evaluations of the limitations of the revolution examine his relationship with labour unions and other aspects of his leadership style. His legacy is revealed by looking at contemporary activists, artists and politicians who draw inspiration from Sankarist thought in social movement struggles today, from South Africa to Burkina Faso. In the 30th anniversary of his assassination, this book illustrates how Sankara's political praxis continues to provide lessons and hope for decolonisation struggles today.

Dispatches from Pluto

Magnificent Universe

"An extraordinary tale, extraordinarily told." —Megan Abbott A masterful, genre-defying narrative of the most ambitious science project ever conceived: NASA's deep space mission to Europa,

the Jovian moon where might swim the first known alien life in our solar system In the spirit of Tom Wolfe and John McPhee, *The Mission* is an exuberant master class of creative nonfiction that reveals how a motley, determined few expanded the horizon of human achievement. When scientists discovered the first ocean beyond Earth, they had two big questions: "Is it habitable?" and "How do we get there?" To answer the first, they had to solve the second, and so began a vivacious team's twenty-year odyssey to mount a mission to Europa, the ocean moon of Jupiter. Standing in their way: NASA, fanatically consumed with landing robots on Mars; the White House, which never saw a science budget it couldn't cut; Congress, fixated on going to the moon or Mars—anywhere, really, to give astronauts something to do; rivals in academia, who wanted instead to go to Saturn; and even Jupiter itself, which guards Europa in a pulsing, rippling radiation belt—a halo of death whose conditions are like those that follow a detonated thermonuclear bomb. *The Mission* is the Homeric, never-before-told story of modern space exploration, and a magnificent portrait of the inner lives of scientists who study the solar system's mysterious outer planets. David W. Brown chronicles the remarkable saga of how Europa was won, and what it takes to get things done—both down here, and up there.

The Mission

New Yorkers Grant and his girlfriend Mariah decided on a whim to buy an old plantation house in the Mississippi Delta. This is their journey of discovery to a remote, isolated strip of land, three miles beyond the tiny community of Pluto. They learn to hunt, grow their own food, and fend off alligators, snakes, and varmints galore. They befriend an array of unforgettable local characters, capture the rich, extraordinary culture of the Delta, and delve deeply into the Delta's lingering racial tensions. As the nomadic Grant learns to settle down, he falls not just for his girlfriend but for the beguiling place they now call home.

The Day We Found the Universe

The solar system most of us grew up with included nine planets, with Mercury closest to the sun and Pluto at the outer edge. Then, in 2005, astronomer Mike Brown made the discovery of a lifetime: a tenth planet, Eris, slightly bigger than Pluto. But instead of adding one more planet to our solar system, Brown's find ignited a firestorm of controversy that culminated in the demotion of Pluto from real planet to the newly coined category of "dwarf" planet. Suddenly Brown was receiving hate mail from schoolchildren and being bombarded by TV reporters—all because of the discovery he had spent years searching for and a lifetime dreaming about. A heartfelt and personal journey filled with both humor and drama, *How I Killed Pluto and Why It Had It Coming* is the book for anyone, young or old, who has ever imagined exploring the universe—and who among us hasn't?

11 Planets

Twenty years ago, the search for planets outside the Solar System was a job restricted to science-fiction writers. Now it's one of the fastest-growing fields in astronomy with thousands of exoplanets discovered to date, and the number is rising fast. These new-found worlds are more alien than anything in fiction. Planets larger than Jupiter with years lasting a week; others with two suns lighting their skies, or with no sun at all. Planets with diamond mantles supporting oceans of tar; possible Earth-sized worlds with split hemispheres of perpetual day and night; waterworlds drowning under global oceans and volcanic lava planets awash with seas of magma. The discovery of this diversity is just the beginning. There is a whole galaxy of

possibilities. The Planet Factory tells the story of these exoplanets. Each planetary system is different, but in the beginning most if not all young stars are circled by clouds of dust, specks that come together in a violent building project that can form colossal worlds hundreds of times the size of the Earth. The changing orbits of young planets risk dooming any life evolving on neighbouring worlds or, alternatively, can deliver the key ingredients needed to seed its beginnings. Planet formation is one of the greatest construction schemes in the Universe, and it occurred around nearly every star you see. Each results in an alien landscape, but is it possible that one of these could be like our own home world?

Birthright

THE BRILLIANT NOVEL THAT LAUNCHED THE VARLEY PHENOMENON The invaders came in 2050—they did not kill anyone outright. They said they came on behalf of the intelligent species of Earth—dolphins and whales. The Invaders quietly destroyed every evidence of technology, then peacefully departed, leaving behind plowed ground and sprouting seeds. In the next two years, ten billion humans starved to death. The remnants of humanity that survived relocated to the moon and other planets. But they are not alone in their struggle—someone or something, somewhere in deep space, is sending them advanced scientific data via the Ophiuchi Hotline. And by the twenty-fifth century, the technological gifts from the Hotline—especially its biological and medical solutions—have created a world unlike any ever known or imagined. From the Paperback edition.

A More Perfect Heaven

Experience the Amazing Unmanned Journeys to Explore the Universe In Incredible Stories from Space, veteran space journalist Nancy Atkinson shares compelling insights from over 35 NASA scientists and engineers, taking readers behind the scenes of the unmanned missions that are transforming our understanding of the solar system and beyond. Weaving together one-on-one interviews along with the extraordinary sagas of the spacecraft themselves, this book chronicles the struggles and triumphs of nine current space missions and captures the true spirit of exploration and discovery. Full color images throughout reveal scientific discoveries and the stunning, breathtaking views of our universe, sent back to Earth by our robotic emissaries to the cosmos. -Travel along with the first mission to Pluto -Explore Mars alongside the Curiosity Rover -Join the unprecedented hunt for extrasolar planets -Unlock the mysteries of the cosmos with the iconic Hubble Space Telescope -Discover the latest findings in our solar system -See the future of space exploration with a preview of upcoming missions

The Ophiuchi Hotline

An astonishing exploration of planet formation and the origins of life by one of the world's most innovative planetary geologists. In 1959, the Soviet probe Luna 3 took the first photos of the far side of the moon. Even in their poor resolution, the images stunned scientists: the far side is an enormous mountainous expanse, not the vast lava-plains seen from Earth. Subsequent missions have confirmed this in much greater detail. How could this be, and what might it tell us about our own place in the universe? As it turns out, quite a lot. Fourteen billion years ago, the universe exploded into being, creating galaxies and stars. Planets formed out of the leftover dust and gas that coalesced into larger and larger bodies orbiting around each star. In a sort of heavenly survival of the fittest, planetary bodies smashed into each other until solar systems emerged. Curiously, instead of being relatively similar in terms of composition, the

planets in our solar system, and the comets, asteroids, satellites and rings, are bewitchingly distinct. So, too, the halves of our moon. In *When the Earth Had Two Moons*, esteemed planetary geologist Erik Asphaug takes us on an exhilarating tour through the farthest reaches of time and our galaxy to find out why. Beautifully written and provocatively argued, *When the Earth Had Two Moons* is not only a mind-blowing astronomical tour but a profound inquiry into the nature of life here—and billions of miles from home.

Bad Astronomy

Ever since the serendipitous discovery of planet Uranus in 1781, astronomers have been hunting for new worlds in the outer regions of our solar system. This exciting and ongoing quest culminated recently in the discovery of hundreds of ice dwarfs in the Kuiper belt, robbed Pluto from its "planet" status, and led to a better understanding of the origin of the solar system. This timely book reads like a scientific "who done it", going from the heights of discovery to the depths of disappointment in the hunt for "Planet X". Based on many personal interviews with astronomers, the well-known science writer Govert Schilling introduces the heroes in the race to be the first in finding another world, bigger than Pluto.

The Remains of the Day

Provides an introduction to the planets of the solar system, including the two new dwarf planets, Ceres and Eris.

Where Grieving Begins

The 1960s Look

basis, n. There has to be a moment at the beginning when you wonder whether you're in love with the person or in love with the feeling of love itself. If the moment doesn't pass, that's it—you're done. And if the moment does pass, it never goes that far. It stands in the distance, ready for whenever you want it back. Sometimes it's even there when you thought you were searching for something else, like an escape route, or your lover's face. How does one talk about love? Do we even have the right words to describe something that can be both utterly mundane and completely transcendent, pulling us out of our everyday lives and making us feel a part of something greater than ourselves? Taking a unique approach to this problem, the nameless narrator of David Levithan's *The Lover's Dictionary* has constructed the story of his relationship as a dictionary. Through these short entries, he provides an intimate window into the great events and quotidian trifles of being within a couple, giving us an indelible and deeply moving portrait of love in our time.

Discovering Pluto

The 1960s, known as the Swinging Sixties are recognized as a landmark decade both by those who lived through them and those who look back in awe at the revolutionary changes in fashion, style and sexual freedom. Continuing interest and appreciation of vintage fashion mean that 1960s styles, hair and make-up have seen a huge increase in popularity and the need for detailed information on this period has never been so great. The Swinging Sixties saw young designers such as Mary Quant producing exciting new clothes modeled by the likes of

Jean Shrimpton and Twiggy. New clothing styles were created like the miniskirt and new materials came to prominence including PVC and Perspex. But achieving the 1960s Look is not just about the clothing but also the hairstyles, make-up, shoes, and many other accessories, all of which Mike Brown covers in detail. Using contemporary sources, photographs and meticulous research The 1960s Look walks you through the decade telling you how men, women and children dressed - and why they looked the way they did. Lavishly illustrated throughout this book takes you back to a decade of fab miniskirts, groovy Beatles jackets, swinging Edwardian military uniforms, Mods in parkas and Rockers in leathers, plus the hairstyles, jewelry, make-up, and so much else that went to make up the 1960s look ."

The Pluto Files: The Rise and Fall of America's Favorite Planet

A finalist for the National Book Award, Don DeLillo's most powerful and riveting novel—a great American novel, a masterpiece, a thrilling page-turner (San Francisco Chronicle)—Underworld is about the second half of the twentieth century in America and about two people, an artist and an executive, whose lives intertwine in New York in the fifties and again in the nineties. With cameo appearances by Lenny Bruce, J. Edgar Hoover, Bobby Thompson, Frank Sinatra, Jackie Gleason and Toots Shor, "this is DeLillo's most affecting novel—a dazzling, phosphorescent work of art" (Michiko Kakutani, The New York Times).

Pluto

Reproduction of the original: The Spanish Tragedie by Thomas Kyd

How I Killed Pluto and Why It Had It Coming

From the winner of the Nobel Prize in Literature, here is the universally acclaimed novel—winner of the Booker Prize and the basis for an award-winning film. This is Kazuo Ishiguro's profoundly compelling portrait of Stevens, the perfect butler, and of his fading, insular world in post-World War II England. Stevens, at the end of three decades of service at Darlington Hall, spending a day on a country drive, embarks as well on a journey through the past in an effort to reassure himself that he has served humanity by serving the "great gentleman," Lord Darlington. But lurking in his memory are doubts about the true nature of Lord Darlington's "greatness," and much graver doubts about the nature of his own life.

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