

The Last Stargazers The Enduring Story Of Astrono

[#last stargazers](#) [#history of astronomy](#) [#stargazing exploration](#) [#cosmic journey](#) [#celestial observation](#)

Delve into the captivating and enduring story of astronomy, tracing the journey of humanity's last stargazers. This narrative explores the rich history of celestial observation and the profound impact of cosmic exploration on our understanding of the universe.

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The Last Stargazers

SHORTLISTED FOR THE ROYAL SOCIETY SCIENCE BOOK PRIZE 2021 FINALIST FOR THE PEN/E.O. WILSON LITERARY SCIENCE WRITING AWARD AN AMAZON BEST BOOK OF 2020 To be an astronomer is to journey to some of the most inaccessible parts of the globe, braving mountain passes, sub-zero temperatures, and hostile flora and fauna. Not to mention the stress of handling equipment worth millions. It is a life of unique delights and absurdities ... and one that may be drawing to a close. Since Galileo first pointed his telescope at the heavens, astronomy has stood as a fount of human creativity and discovery, but soon it will be the robots gazing at the sky while we are left to sift through the data. In *The Last Stargazers*, Emily Levesque reveals the hidden world of the professional astronomer. She celebrates an era of ingenuity and curiosity, and asks us to think twice before we cast aside our sense of wonder at the universe.

The Last Stargazers Extended Excerpt

Read the EXCLUSIVE extended excerpt of *The Last Stargazers*... Humans from the earliest civilizations were spellbound by the night sky—craning their necks each night, they used the stars to orient themselves in the large, strange world around them. Stargazing is a pursuit that continues to fascinate us: from Copernicus to Carl Sagan, astronomers throughout history have spent their lives trying to answer the biggest questions in the universe. Now, award-winning astronomer Emily Levesque shares the stories of modern-day stargazers, the people willing to adventure across high mountaintops and to some of the most remote corners of the planet, all in the name of science. From the lonely quiet of midnight stargazing to tall tales of wild bears loose in the observatory, *The Last Stargazers* is a love letter to astronomy and an affirmation of the crucial role that humans can and must play in the future of scientific discovery. In this sweeping work of narrative science, Levesque shows how astronomers in this scrappy and evolving field are going beyond the machines to infuse creativity and passion into the stars and inspires us all to peer skyward in pursuit of the universe's secrets.

Vera Rubin

The first biography of a pioneering scientist who made significant contributions to our understanding of dark matter and championed the advancement of women in science. One of the great lingering mysteries of the universe is dark matter. Scientists are not sure what it is, but most believe it's out there, and in abundance. The astronomer who finally convinced many of them was Vera Rubin. When Rubin died in 2016, she was regarded as one of the most influential astronomers of her era. Her research on the rotation of spiral galaxies was groundbreaking, and her observations contributed significantly to the confirmation of dark matter, a most notable achievement. In *Vera Rubin: A Life*, prolific science writers Jacqueline Mitton and Simon Mitton provide a detailed, accessible overview of Rubin's work, showing how she leveraged immense curiosity, profound intelligence, and novel technologies to help transform our understanding of the cosmos. But Rubin's impact was not limited to her contributions to scientific knowledge. She also helped to transform scientific practice by promoting the careers of women researchers. Not content to be an inspiration, Rubin was a mentor and a champion. She advocated for hiring women faculty, inviting women speakers to major conferences, and honoring women with awards that were historically the exclusive province of men. Rubin's papers and correspondence yield vivid insights into her life and work, as she faced down gender discrimination and met the demands of family and research throughout a long and influential career. Deftly written, with both scientific experts and general readers in mind, *Vera Rubin* is a portrait of a woman with insatiable curiosity about the universe who never stopped asking questions and encouraging other women to do the same.

Supernova

A concise illustrated introduction to the history and physics of supernovae, the brilliant explosions of stars; with striking color illustrations. Supernovae are the explosions of stars. They are some of the most energetic phenomena in the Universe, rivaling the combined light of billions of stars. Supernovae have been studied for centuries, and they have also made appearances in popular culture: a glimpse of a supernova in a painting provides Sherlock Holmes with a crucial clue, for example. In this volume in the MIT Press Essential Knowledge series, astrophysicist Or Graur offers a concise and accessible introduction to these awe-inspiring astronomical phenomena. Graur explains that a deep observational understanding of supernovae—why and how they shine and how their brightness changes over time—allows us to use them as tools for experiments in astrophysics and physics. A certain type of supernova, for example, brightens and fades in such a predictable manner that we can measure the distances to their host galaxies. We owe our existence to supernovae—they give us iron for our blood and calcium for our bones. But supernovae may also have caused a mass extinction event on Earth 2.6 million years ago. Graur shows how observations of supernovae played a role in the transformation of astronomy from astrology to astrophysics; surveys the tools used to study supernovae today; and describes the lives and deaths of stars and the supernova remnants, neutron stars, and black holes they leave behind. Illustrations in both color and black and white, many from Graur's own Hubble Space Telescope data, make this account of supernovae particularly vivid.

When the Earth Had Two Moons

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.

First Light

First Light opens a window into a previously dark and secret time in our Universe's history – the time when the first stars were born.

A Grand and Bold Thing

LATE IN THE TWENTIETH CENTURY, what had been a fevered pace of discovery in astronomy for many years had slowed. The Hubble Space Telescope continued to produce an astonishing array of images, but the study of the universe was still fractured into domains: measuring the universe's expansion rate, the evolution of galaxies in the early universe, the life and death of stars, the search for extrasolar planets, the quest to understand the nature of the elusive dark matter. So little was understood, still, about so many of the most fundamental questions, foremost among them: What was the overall structure of the universe? Why had stars formed into galaxies, and galaxies into massive clusters? What was needed, thought visionary astronomer Jim Gunn, recently awarded the National Medal of Science, was a massive survey of the sky, a kind of new map of the universe that would be so rich in detail and cover such a wide swath of space, be so grand and bold, that it would allow astronomers to see the big picture in a whole new way. So was born the Sloan Digital Sky Survey, a remarkable undertaking bringing together hundreds of astronomers and launching a new era of supercharged astronomical discovery, an era of "e-science" that has taken astronomy from the lonely mountaintop observatory to the touch of your fingertips. Critically acclaimed science writer Ann Finkbeiner tells the inside story of the Sloan and how it is revolutionizing astronomy. The Sloan stitched together images of deep space taken over the course of five years, providing a remarkably detailed, three-dimensional map of a vast territory of the universe, all digitized and downloadable for easy searching on a personal computer, and available not only to professional astronomers but to the public as well. Bringing together for the first time images of many millions of galaxies—including the massive structure known as the Sloan Great Wall of galaxies, never seen before—the Sloan is allowing astronomers and armchair enthusiasts alike to watch the universe grow up, providing so many discoveries at such a fast pace that, as one astronomer said, it's like drinking out of a fire hose. They are watching galaxies forming and galaxies merging with other galaxies, seeing streams of stars swirling out from galaxies, and forming a new understanding of how the smooth soup of matter that emerged from the Big Bang evolved into the universe as we know it. Ann Finkbeiner brings the excitement and the extraordinary potential of this new era of astronomy vividly to life and allows all readers to understand how they, too, can become part of the discovery process. A Grand and Bold Thing is vital reading for all.

The Sirens of Mars

As a new wave of interplanetary exploration unfolds, a talented young planetary scientist charts our centuries-old obsession with Mars. 'Beautifully written, emotive - a love letter to a planet' DERMOT O'LEARY, BBC Radio 2 Mars - bewilderingly empty, coated in red dust - is an unlikely place to pin our hopes of finding life elsewhere. And yet, right now multiple spacecraft are circling, sweeping over Terra Sabaea, Syrtis Major, the dunes of Elysium and Mare Sirenum - on the brink, perhaps, of a discovery that would inspire humankind as much as any in our history. With poetic precision and grace, Sarah Stewart Johnson traces the evocative history of our explorations of Mars. She interlaces her personal journey as a scientist with tales of other seekers - from Galileo to William Herschel to Carl Sagan - who have scoured this enigmatic planet for signs of life and transformed it in our understanding from a distant point of light into a complex world. Ultimately, she shows how its story is also a story about Earth: it is a foil, a mirror, a tell-tale reflection of our own anxieties and yearnings to find - if we're lucky - that we're not alone. 'Elegantly written and boundlessly entertaining' Sunday Telegraph 'Beguiling' The Times 'Johnson's prose swirls with lyrical wonder, as varied and multi-hued as the apricot deserts, butterscotch skies and blue sunsets of Mars' Anthony Doerr, New York Times Book Review 'Elegantly crafted' Lord Martin Rees, Astronomer Royal

The Second Kind of Impossible

Shortlisted for the 2019 Royal Society Insight Investment Science Book Prize One of the most fascinating scientific detective stories of the last fifty years, an exciting quest for a new form of matter. "A riveting tale of derring-do" (Nature), this book reads like James Gleick's Chaos combined with an Indiana Jones adventure. When leading Princeton physicist Paul Steinhardt began working in the 1980s, scientists thought they knew all the conceivable forms of matter. The Second Kind of Impossible is the story of Steinhardt's thirty-five-year-long quest to challenge conventional wisdom. It begins with

a curious geometric pattern that inspires two theoretical physicists to propose a radically new type of matter—one that raises the possibility of new materials with never before seen properties, but that violates laws set in stone for centuries. Steinhardt dubs this new form of matter “quasicrystal.” The rest of the scientific community calls it simply impossible. The Second Kind of Impossible captures Steinhardt’s scientific odyssey as it unfolds over decades, first to prove viability, and then to pursue his wildest conjecture—that nature made quasicrystals long before humans discovered them. Along the way, his team encounters clandestine collectors, corrupt scientists, secret diaries, international smugglers, and KGB agents. Their quest culminates in a daring expedition to a distant corner of the Earth, in pursuit of tiny fragments of a meteorite forged at the birth of the solar system. Steinhardt’s discoveries chart a new direction in science. They not only change our ideas about patterns and matter, but also reveal new truths about the processes that shaped our solar system. The underlying science is important, simple, and beautiful—and Steinhardt’s firsthand account is “packed with discovery, disappointment, exhilaration, and persistence...This book is a front-row seat to history as it is made” (Nature).

Once Upon a Time I Lived on Mars

'Filled with wonderment and awe ... Greene's eloquent memoir is equal parts escape and comfort.' Publishers Weekly A powerful reflection on life in isolation, in pursuit of the dream of Mars. In 2013 Kate Greene moved to Mars. On NASA's first HI-SEAS simulated Mars mission in Hawaii, she lived for four months in an isolated geodesic dome with her crewmates, gaining incredible insight into human behaviour in tight quarters, as well as the nature of boredom, dreams and isolation that arise amidst the promise of scientific progress and glory. Greene draws on her experience to contemplate what makes an astronaut, the challenges of freeze-dried eggs and time-lagged correspondence, the cost of shooting for a Planet B. The result is a story of space and life, of the slippage between dreams and reality, of bodies in space, and of humanity's incredible impulse to explore. From trying out life on Mars, Greene examines what it is to live on Earth. 'In her thoughtful, well-written account of the mission, Greene reflects on what this and other space missions can teach us about ourselves and life on Earth.' Physics Today

Sun and Moon

A spectacular pictorial history of astronomical exploration, for anyone who has gazed at the sky and wondered what lies beyond From the beginning of time, human beings have looked up at the stars and speculated on other worlds. Published to mark the fiftieth anniversary of the first moon landing, Sun and Moon tells the story of that burning human need to comprehend the universe, from Neolithic observatories that mark the solstice to the latest space telescopes. It shows, for the first time, how the development of photography and cartography – the means of documenting other worlds – is linked indelibly to the charting of the heavens, from the first image on a glass plate to the Hubble Space Telescope.

Ripples in Spacetime

A spacetime appetizer -- Relatively speaking -- Einstein on trial -- Wave talk and bar fights -- The lives of stars -- Clockwork precision -- Laser quest -- The path to perfection -- Creation stories -- Cold case -- Gotcha -- Black magic -- Nanoscience -- Follow-up questions -- Space invaders -- Surf's up for Einstein wave astronomy

The Secret Perfume of Birds

The untold story of a stunning discovery: not only can birds smell, but their scents may be the secret to understanding their world. The puzzling lack of evidence for the peculiar but widespread belief that birds have no sense of smell irked evolutionary biologist Danielle Whittaker. Exploring the science behind the myth led her on an unexpected quest investigating mysteries from how juncos win a fight to why cowbirds smell like cookies. In *The Secret Perfume of Birds*—part science, part intellectual history, and part memoir—Whittaker blends humor, clear writing, and a compelling narrative to describe how scent is important not just for birds but for all animals, including humans. Whittaker engagingly describes how emerging research has uncovered birds' ability to produce complex chemical signals that influence their behavior, including where they build nests, when they pick a fight, and why they fly away. Mate choice, or sexual selection—a still enigmatic aspect of many animals' lives—appears to be particularly influenced by smell. Whittaker's pioneering studies suggest that birds' sexy (and scary) signals are produced by symbiotic bacteria that manufacture scents in the oil that birds stroke on their feathers when preening.

From tangerine-scented auklets to her beloved juncos, redolent of moss, birds from across the world feature in Whittaker's stories, but she also examines the smelly chemicals of all kinds of creatures, from iguanas and bees to monkeys and humans. Readers will enjoy a rare opportunity to witness the twisting roads scientific research can take, especially the challenging, hilarious, and occasionally dangerous realities of ornithology in the wild. *The Secret Perfume of Birds* will interest anyone looking to learn more about birds, about how animals and humans use our senses, and about why it can sometimes take a rebel scientist to change what we think we know for sure about the world—and ourselves.

How Beautiful We Were

A PEN/FAULKNER AWARD FINALIST 'Sweeping and quietly devastating' New York Times 'A David and Goliath story for our times' O, the Oprah Magazine Set in the fictional African village of Kosawa, this is the story of a people living in fear amidst environmental degradation wrought by an American oil company. Pipeline spills have rendered farmlands infertile. Children are dying from drinking toxic water. Promises of clean-up and financial reparations are made – and broken. Left with few choices, the people of Kosawa decide to fight back. But it will come at a steep price – one which generation after generation will have to pay. *How Beautiful We Were* is a masterful exploration of what happens when the reckless drive for profit, coupled with the ghost of colonialism, comes up against one community's determination to hold onto its ancestral land and a young woman's willingness to sacrifice everything for the sake of her people's freedom.

The End of Bias

Unconscious bias: persistent prejudiced behaviour that clashes with our consciously held beliefs. Its effects can be corrosive, even lethal. It robs organizations of talent, science of breakthroughs, politics of insight, individuals of their futures and communities of justice. So what real-world steps can we take to counteract it? Drawing on ten years' immersion in the topic, Jessica Nordell digs deep into the cognitive science and social psychology that underpin efforts to create change, and introduces us to the people who are practising a range of promising methods: the police using mindfulness to regulate high-stress situations; the doctors whose diagnostic checklists help eliminate bias in treatment; the lawyers and educators striving to embed equality all the way from the early-years playroom to the boardroom. Biased behaviour can be ended. This path-breaking, inspiring and indispensable book shows us how.

Flashes of Creation

A respected physics professor and author breaks down the great debate over the Big Bang and the continuing quest to understand the fate of the universe. Today, the Big Bang is so entrenched in our understanding of the cosmos that to doubt it would seem crazy. But as Paul Halpern shows in *Flashes of Creation*, just decades ago its mere mention caused sparks to fly. At the center of the debate were Russian American physicist George Gamow and British astrophysicist Fred Hoyle. Gamow insisted that a fiery explosion explained how the elements of the universe were created. Attacking the idea as half-baked, Hoyle countered that the universe was engaged in a never-ending process of creation. The battle was fierce. In the end, Gamow turned out to be right -- mostly -- and Hoyle, along with his many achievements, is remembered for giving the theory the silliest possible name: "The Big Bang." Halpern captures the brilliance of both thinkers and reminds us that even those proved wrong have much to teach us about boldness, imagination, and the universe itself.

Becoming Martian

Join Australian physicist, comedian & astronaut candidate Josh Richards on an humorous and informative journey to the red planet, blending science, engineering and ethics with comedy as he shares at how colonising Mars will change humans in body, mind and soul.

Linguistic Justice

Bringing together theory, research, and practice to dismantle Anti-Black Linguistic Racism and white linguistic supremacy, this book provides ethnographic snapshots of how Black students navigate and negotiate their linguistic and racial identities across multiple contexts. By highlighting the counterstories of Black students, Baker-Bell demonstrates how traditional approaches to language education do not account for the emotional harm, internalized linguistic racism, or consequences these approaches have on Black students' sense of self and identity. This book presents Anti-Black Linguistic Racism as

a framework that explicitly names and richly captures the linguistic violence, persecution, dehumanization, and marginalization Black Language-speakers endure when using their language in schools and in everyday life. To move toward Black linguistic liberation, Baker-Bell introduces a new way forward through Antiracist Black Language Pedagogy, a pedagogical approach that intentionally and unapologetically centers the linguistic, cultural, racial, intellectual, and self-confidence needs of Black students. This volume captures what Antiracist Black Language Pedagogy looks like in classrooms while simultaneously illustrating how theory, research, and practice can operate in tandem in pursuit of linguistic and racial justice. A crucial resource for educators, researchers, professors, and graduate students in language and literacy education, writing studies, sociology of education, sociolinguistics, and critical pedagogy, this book features a range of multimodal examples and practices through instructional maps, charts, artwork, and stories that reflect the urgent need for antiracist language pedagogies in our current social and political climate.

You Can Stop Humming Now

'Gripping, soaring, inspiring . . . Read it' - Atul Gawande, author of the international bestseller *Being Mortal* 'You Can Stop Humming Now is essential reading on what it means to be human in an age of medical technology. I couldn't put it down' - Alexandria Marzano-Lesnevich, author of *The Fact of a Body* 'In turns anguishing, gripping, and hopeful, *You Can Stop Humming Now* is a must-read for anyone contemplating what medicine holds in store for us.' - Danielle Ofri, MD, PhD, author of *What Patients Say, What Doctors Feel* Modern medicine is a world that glimmers with new technology and cutting-edge research. To the public eye, medical stories often begin with sirens and flashing lights and culminate in survival or death. But these are only the most visible narratives. As a critical care doctor treating people at their sickest, Daniela Lamas is fascinated by a different story: what comes after for those whose lives are extended by days, months, or years as a result of our treatments and technologies? In *You Can Stop Humming Now*, Lamas explores the complex answers to this question through intimate accounts of patients and their families. A grandfather whose failing heart has been replaced by a battery-operated pump; a salesman who found himself a kidney donor on social media; a college student who survived a near fatal overdose and returned home, alive but not the same; and a young woman navigating an adulthood she never thought she'd live to see—these moving narratives paint a detailed picture of the fragile border between sickness and health. Riveting, beautifully told, and deeply personal, *You Can Stop Humming Now* is a compassionate, uncompromising look at the choices and realities that many of us, and our families, may one day face.

The Monthly Sky Guide

The ninth edition of Ian Ridpath and Wil Tirion's famous guide to the night sky is updated with planet positions and forthcoming eclipses to the end of the year 2017. It contains twelve chapters describing the main sights visible in each month of the year, providing an easy-to-use companion for anyone wanting to identify prominent stars, constellations, star clusters, nebulae and galaxies; to watch out for meteor showers ('shooting stars'); or to follow the movements of the four brightest planets, Venus, Mars, Jupiter and Saturn. Most of the sights described are visible to the naked eye and all are within reach of binoculars or a small telescope. This revised and updated edition includes sections on observing the Moon and the planets, with a comprehensive Moon map. The *Monthly Sky Guide* offers a clear and simple introduction to the skies of the northern hemisphere for beginners of all ages.

Workhorse

A razor-sharp look at one woman's nearly two decades in the New York City restaurant, including her time working with Joe Bastianich, and what happens when your job consumes your life. By day, Kim Reed was a social worker to the homebound elderly in Brooklyn Heights. By night, she scrambled into Manhattan to hostess at Babbo, where even the Pope would have had trouble scoring a reservation, and A-list celebrities squeezed through the jam-packed entryway like everyone else. Despite her whirlwind fifteen-hour workdays, Kim remained up to her eyeballs in grad school debt. Her training—problem solving, crisis intervention, dealing with unpredictable people and random situations—made her the ideal assistant for the volatile Joe Bastianich, a hard-partying, "What's next?" food and wine entrepreneur. He rose to fame in Italy as a TV star while Kim planned parties, fielded calls, and negotiated deals from two phones on the go. Decadent food, summers in Milan, and a reservation racket that paid in designer bags and champagne were fun only inasmuch as they filled the void left by being always on call and on edge. In a blink, the years passed, and one day Kim looked up and realized

that everything she wanted beyond her job—friends, a relationship, a family, a weekend without twenty ominous emails dropping into her inbox—was out of reach. *Workhorse* is a deep-dive into coming of age in the chaos of New York City's foodie craze and an all-too-relatable look at what happens when your job takes over your identity, and when a scandal upends your understanding of where you work and what you do. After spending years making the impossible possible for someone else, Kim realized she had to do the same for herself.

Jack Benny and the Golden Age of American Radio Comedy

"Jack Benny became one of the most influential entertainers of the 20th century--by being the top radio comedian, when the comics ruled radio, and radio was the most powerful and pervasive mass medium in the US. In 23 years of weekly radio broadcasts, by aiming all the insults at himself, Benny created Jack, the self-deprecating "Fall Guy" character. He indelibly shaped American humor as a space to enjoy the equal opportunities of easy camaraderie with his cast mates, and equal ego deflation. Benny was the master of comic timing, knowing just when to use silence to create suspense or to have a character leap into the dialogue to puncture Jack's pretensions. Jack Benny was also a canny entrepreneur, becoming one of the pioneering "showrunners" combining producer, writer and performer into one job. His modern style of radio humor eschewed stale jokes in favor informal repartee with comic hecklers like his valet Rochester (played by Eddie Anderson) and Mary Livingstone his offstage wife. These quirky characters bouncing off each other in humorous situations created the situation comedy. In this career study, we learn how Jack Benny found ingenious ways to sell his sponsors' products in comic commercials beloved by listeners, and how he dealt with the challenges of race relations, rigid gender ideals and an insurgent new media industry (TV). Jack Benny created classic comedy for a rapidly changing American culture, providing laughter that buoyed radio listeners from 1932's depths of the Great Depression, through World War II to the mid-1950s"--Provided by publisher.

The Story of the Universe in 100 Stars

Visit one hundred extraordinary stars that unveil the mysteries of the universe Our own Sun—a source of awe, myth, and mystery for untold generations of sky-gazers—is just one of roughly two hundred billion trillion stars. Together, they're a window into the profoundest questions in physics—overturning, again and again, how we understand light, matter, time, and existence itself. Florian Freistetter explains all this and more, in brief, easy-to-read profiles of the hundred most history-making stars, inviting readers to gaze into the past and future of the universe alongside a stellar cast of scientists— from Annie Jump Cannon, who revolutionized how we classify the stars, to Dorrit Hoffleit, who first counted them. Enjoy your journey through the cosmos . . . GRB 080319B, the farthest we've seen into space with the naked eye V1364 CYGNI, pivotal in the discovery of dark matter 72 Tauri, definitive evidence for Einstein's theory of relativity Algol, called the Demon Star for its mysterious blinking—and many more! Publisher's note: *100 Stars That Explain the Universe* was previously published in hardcover as *The Story of the Universe in 100 Stars*.

Yours Cruelly, Elvira

The woman behind the icon known as Elvira, Mistress of the Dark, the undisputed Queen of Halloween, reveals her full story filled with intimate bombshells—told by the bombshell herself. On Good Friday in 1953, at only 18 months old, 25 miles from the nearest hospital in Manhattan, Kansas, Cassandra Peterson reached for a pot on the stove and doused herself in boiling water. Third-degree burns covered 35% of her body, and the prognosis wasn't good. But she survived. Burned and scarred, the impact stayed with her and became an obstacle she was determined to overcome. Feeling like a misfit led to her love of horror. While her sisters played with Barbie dolls, Cassandra built model kits of Frankenstein and Dracula, and idolized Vincent Price. Due to a complicated relationship with her mother, Cassandra left home at 14, and by age 17 she was performing at the famed Dunes Hotel in Las Vegas. Run-ins with the likes of Frank Sinatra, Sammy Davis Jr., and Tom Jones helped her grow up fast. Then a chance encounter with her idol Elvis Presley, changed the course of her life forever, and led her to Europe where she worked in film and traveled Italy as lead singer of an Italian pop band. She eventually made her way to Los Angeles, where she joined the famed comedy improv group, The Groundlings, and worked alongside Phil Hartman and Paul "Pee-wee" Reubens, honing her comedic skills. Nearing age 30, a struggling actress considered past her prime, she auditioned at local LA channel KHJ as hostess for the late night vintage horror movies. Cassandra improvised, made the role her own, and got the job on the spot. *Yours Cruelly, Elvira* is an unforgettably wild memoir. Cassandra doesn't shy away

from revealing exactly who she is and how she overcame seemingly insurmountable odds. Always original and sometimes outrageous, her story is loaded with twists, travails, revelry, and downright shocking experiences. It is the candid, often funny, and sometimes heart-breaking tale of a Midwest farm girl's long strange trip to become the world's sexiest, sassiest Halloween icon. Instant New York Times Bestseller, Los Angeles Times Bestseller, USA Today Bestseller, Publishers Weekly Bestseller A New York Times Best Books to Give This Season selection

In Praise of Mortality

Rainer Maria Rilke's poetry offers a rare combination of insight, beauty, and accessibility that has delighted readers for generations. Beloved for its unique lyrical style and musical language, his work stands as some of the most remarkable poetry of the past one hundred years. In Praise of Mortality is an artfully curated selection of poems from Sonnets to Orpheus and Duino Elegies that investigate the emotional and psychological impact of the industrial revolution, and meditate on themes of impermanence and the steady passage of time. Barrows, an award-winning poet herself, and Macy, a well-known spiritual teacher, bring to their translations a striking sensitivity to the subtle currents of the work, approaching the poems with a fresh perspective that highlights the delicacy of their craft and beauty. With a deep reverence for nature and a singular ability to embody the tenuous connection between the spiritual and material, Rilke's sonnets and elegies are a thoughtful antidote to the distractions, noise, and ever-increasing pace of the modern world.

I'm With the Band: Confessions of a Groupie

First published in 1987, New York Times bestseller, I'm With The Band has been reprinted throughout the years, all over the world. This is the stylish, exuberant and sweetly innocent tale of one of the most famous groupies of the 1960s and 70s. Beginning with Pamela Des Barres' early obsession with Elvis, her own Beatlemania madness, and her fierce determination to meet the musicians who rocked her world, I'm With The Band illuminates the glory days of scintillating encounters with musical gods including Jim Morrison, Jimi Hendrix, Mick Jagger and Keith Moon. A girl just wanting to have fun, Des Barres immersed herself in the drugs, danger and ecstasy of the freewheeling 1960s. As a member of The GTOs (Girls Together Outrageously), an all-female group masterminded by Frank Zappa, Des Barres was in the thick of the most revolutionary renaissance in the history of modern popular music. She travelled with Led Zeppelin; lived in sin with Don Johnson; turned down a date with Elvis Presley; and was close friends with Robert Plant, Gram Parsons and Ray Davies. She had affairs with Mick Jagger, Jimmy Page, Keith Moon, Waylon Jennings, Chris Hillman, Noel Redding, and Jim Morrison, among others. A woman in possession of her own destiny, Des Barres blazed a trail for women's life-writing, standing up for female voices and experience everywhere. From original diaries, told with great warmth, chutzpah and joie de vivre, this is a frank memoir that wears its heart on its sleeve, and recalls one of rock 'n' roll's most thrilling eras. This edition contains new material from the author, including her response to the vitriolic shaming of groupies, and a foreword by Roisin O'Connor, rock journalist and music correspondent for the Independent.

Mafia Princess Part 4

Semaj is back as the head of the Espreilla Family but she soon learns someone has masterminded a plan to make her relinquish her power. With enemies closing in and death knocking at her door, Semaj believes there is only one man she can completely trust and let her guard down with...the love of her life Qua. But is Qua willing to put the past behind them and do whatever is necessary to protect Semaj? With so much to lose Semaj is determined to Stay Rich Or Die Trying.

Ten Restaurants That Changed America

Featuring a new chapter on ten restaurants changing America today, a "fascinating . . . sweep through centuries of food culture" (Washington Post). Combining an historian's rigor with a food enthusiast's palate, Paul Freedman's seminal and highly entertaining Ten Restaurants That Changed America reveals how the history of our restaurants reflects nothing less than the history of America itself. Whether charting the rise of our love affair with Chinese food through San Francisco's fabled Mandarin; evoking the poignant nostalgia of Howard Johnson's, the beloved roadside chain that foreshadowed the pandemic of McDonald's; or chronicling the convivial lunchtime crowd at Schrafft's, the first dining establishment to cater to women's tastes, Freedman uses each restaurant to reveal a wider story of race and class, immigration and assimilation. "As much about the contradictions and contrasts in this

country as it is about its places to eat" (The New Yorker), Ten Restaurants That Changed America is a "must-read" (Eater) that proves "essential for anyone who cares about where they go to dinner" (Wall Street Journal Magazine).

Don't applaud. Either laugh or don't. (At the Comedy Cellar.)

This is a book about three things: 1. A room called the Comedy Cellar. 2. Who gets to speak in that room. 3. What they get to say. AMY SCHUMER. LOUIS CK. JERRY SEINFELD. CHRIS ROCK. They all worked the Comedy Cellar in Greenwich Village, honing their acts, experimenting, taking risks. It was a safe space, thanks to the principles of its first owner, Manny Dworman, then his son Noam. The only threat to freedom of expression was a lack of laughs. But how did a New York taxi driver, born in Tel Aviv, create comedy's most important stage? How did he influence some of the biggest names in stand-up? What are the limits of a joke? Who decides? And why does the comedians' table matter so much? Andrew Hankinson speaks to the Cellar's owner, comedians, and audience members, using interviews, emails, podcasts, letters, text messages, and previously private documents to create a conversation about the perils, pride, and prejudice of modern comedy. Moving backwards in time from Louis CK's downfall to when Manny used to host folk singers including Bob Dylan, this is about a comedy club, but it's also about the widening chasm in contemporary culture.

The Sleeping Beauties

Shortlisted for the Royal Society Science Book Prize 2021 'To compare any book to a Sacks is unfair, but this one lives up to it . . . I finished it feeling thrillingly unsettled, and wishing there was more.' James McConnachie, Sunday Times 'A study of diseases that we sometimes say are 'all in the mind', and an explanation of how unfair that characterisation is.' Tom Whipple, The Times Books of the Year In Sweden, refugee children fall asleep for months and years at a time. In upstate New York, high school students develop contagious seizures. In the US Embassy in Cuba, employees complain of headaches and memory loss after hearing strange noises in the night. These disparate cases are some of the most remarkable diagnostic mysteries of the twenty-first century, as both doctors and scientists have struggled to explain them within the boundaries of medical science and – more crucially – to treat them. What unites them is that they are all examples of a particular type of psychosomatic illness: medical disorders that are influenced as much by the idiosyncratic aspects of individual cultures as they are by human biology. Inspired by a poignant encounter with the sleeping refugee children of Sweden, Wellcome Prize-winning neurologist Suzanne O'Sullivan travels the world to visit other communities who have also been subject to outbreaks of so-called 'mystery' illnesses. From a derelict post-Soviet mining town in Kazakhstan, to the Mosquito Coast of Nicaragua via an oil town in Texas, to the heart of the Maria Mountains in Colombia, O'Sullivan hears remarkable stories from a fascinating array of people, and attempts to unravel their complex meaning while asking the question: who gets to define what is and what isn't an illness? Reminiscent of the work of Oliver Sacks, Stephen Grosz and Henry Marsh, The Sleeping Beauties is a moving and unforgettable scientific investigation with a very human face. 'To compare any book to a Sacks is unfair, but this one lives up to it.' Sunday Times

Women in Early British and Irish Astronomy

Careers in astronomy for women (as in other sciences) were a rarity in Britain and Ireland until well into the twentieth century. The book investigates the place of women in astronomy before that era, recounted in the form of biographies of about 25 women born between 1650 and 1900 who in varying capacities contributed to its progress during the eighteenth, nineteenth and early twentieth centuries. There are some famous names among them whose biographies have been written before now, there are others who have received less than their due recognition while many more occupied inconspicuous and sometimes thankless places as assistants to male family members. All deserve to be remembered as interesting individuals in an earlier opportunity-poor age. Placed in roughly chronological order, their lives constitute a sample thread in the story of female entry into the male world of science. The book is aimed at astronomers, amateur astronomers, historians of science, and promoters of women in science, but being written in non-technical language it is intended to be of interest also to educated readers generally.

Exhalation

'One of the most exciting writers in science fiction . . . Although dark in premise, these parables – threaded through with references to ancient mythology and folklore – are filled with hope and

humanism: a balm for anxious souls.' – Daily Telegraph From the acclaimed author of *Stories of Your Life and Others* – the basis for the Academy Award nominated film *Arrival* – comes a groundbreaking second collection of short fiction: nine stunningly original, provocative, and poignant stories. These are tales that tackle some of humanity's oldest questions along with new quandaries that only Ted Chiang could imagine. In 'The Merchant and the Alchemist's Gate', a portal through time forces a fabric-seller in ancient Baghdad to grapple with past errors and the temptation of second chances. In the epistolary 'Exhalation', an alien scientist makes a shocking discovery with ramifications not just for his own people, but for all of reality. In 'Anxiety is the Dizziness of Freedom', the ability to glimpse into alternate universes necessitates a radically new examination of the concepts of choice and free will. In *Exhalation*, Ted Chiang addresses the most fundamental of issues – What is the nature of the universe? What does it mean to be human? – alongside others that no one else has even imagined. And, each in its own way, the stories prove that complex and thoughtful science fiction can rise to new heights of beauty, meaning, and compassion. 'Deeply beautiful stories . . . Each thoughtful, elegantly crafted story poses a philosophical question; Chiang curates all nine into a conversation that comes full circle, after having traversed remarkable terrain.' – New York Times 'The 10 Best Books of 2019' 'Chiang's writing . . . inspires awe for the natural properties of the universe; it renders the fundamentals of science poignant and affecting.' – Economist 'A scintillating cavalcade of ideas . . . Chiang breathes new life into well-worn SF themes such as time travel, artificial intelligence and parallel universes.' – Financial Times 'Books of the Year'

I Must Say

In this engagingly witty, wise, and heartfelt memoir, Martin Short tells the tale of how a showbiz-obsessed kid from Canada transformed himself into one of Hollywood's favorite funny-men, known to his famous peers as the "comedian's comedian." Short takes the reader on a rich, hilarious, and occasionally heartbreaking ride through his life and times, from his early years in Toronto as a member of the fabled improvisational troupe Second City to the all-American comic big time of *Saturday Night Live*, and from memorable roles in such movies as *¡Three Amigos!* and *Father of the Bride* to Broadway stardom in *Fame Becomes Me* and the Tony-winning *Little Me*. He reveals how he created his most indelible comedic characters, among them the manic man-child Ed Grimley, the slimy corporate lawyer Nathan Thurman, and the bizarrely insensitive interviewer Jiminy Glick. Throughout, Short freely shares the spotlight with friends, colleagues, and collaborators, among them Steve Martin, Tom Hanks, Gilda Radner, Mel Brooks, Nora Ephron, Eugene Levy, Catherine O'Hara, Paul Shaffer, and David Letterman. But there is another side to Short's life that he has long kept private. He lost his eldest brother and both parents by the time he turned twenty, and, more recently, he lost his wife of thirty years to cancer. In *I Must Say*, Short talks for the first time about the pain that these losses inflicted and the upbeat life philosophy that has kept him resilient and carried him through. In the grand tradition of comedy legends, Martin Short offers a show-business memoir densely populated with boldface names and rife with retellable tales: a hugely entertaining yet surprisingly moving self-portrait that will keep you laughing—and crying—from the first page to the last.

Melani

Melani Clark has always had dreams of being a plus size model and stylist. Despite her beauty and her dreams, serious issues from her past lead to her feeling trapped in a dead-end job at a boutique. Then, her boss notices her skill and gives her the chance of a lifetime to work with her idol, plus size model Nubia Lee. In the process of getting with Nubia, Melani meets party promoter Javion Banks at one of his events. The attraction between them is instant, but used to protecting her heart, Melani is hesitant to go all-in with the popular and sexy Javion. Javion has been living the life, traveling around the world promoting the most exclusive events for the wealthiest people. But what Javion lacks in his lavish life is love. He's so busy with his successful business that he really has no time for women. Then, he lays eyes on Melani Clark. Once he sees her, he has to have her. Unfortunately, his assistant-and-sometimes-bed-buddy-stands in the way. Javion's situation is a prime example of why you never mix business with pleasure. Will his past mistake prevent Melani and him from having a future?

The Brightest Stars

"Fred Schaaf is one of the most experienced astronomical observers of our time. For more than two decades, his view of the sky-what will be visible, when it will be visible, and what it will look like-has encouraged tens of thousands of people to turn their eyes skyward." —David H. Levy, Science Editor,

Parade magazine, discoverer of twenty-one comets, and author of *Starry Night* and *Cosmic Discoveries* "Fred Schaaf is a poet of the stars. He brings the sky into people's lives in a way that is compelling and his descriptions have all the impact of witnessing the stars on a crystal-clear dark night." —William Sheehan, coauthor of *Mars: The Lure of the Red Planet* and *The Transits of Venus* In this book, you'll meet the twenty-one brightest stars visible from Earth. You'll learn how to find these stars and discover the best ways to see them. Each star is profiled in a separate chapter, with detailed guidance on what to look for while observing it. Suitable for beginners as well as experienced amateur astronomers, the book shares fascinating information about the lore and legends connected with each star through history, as well as what the science of astronomy has to teach us about the star's physical nature.

Intimate

A Tupelo Press Lineage Series publication *Intimate* is a hybrid memoir and "photo album" that blends personal essay, historical documentary, and poetry to examine the tense relationship between self, society, and familial legacy in contemporary America. Typographically innovative, *Intimate* creates parallel streams, narrating the stories of Rekdal's Norwegian-American father and his mixed-race marriage, the photographer Edward S. Curtis, and Curtis's murdered Apsaroke guide, Alexander Upshaw. The result is panoramic, a completely original literary encounter with intimacy, identity, family relations, and race. Praise for Paisley Rekdal's previous books: "Rekdal ... cleverly dissects what it means to be biracial in America and overseas in this artful collection.... The narrative structure is inventive and draws from her sharply honed skills as a poet.... Rekdal has a lot to say."--Booklist "Dazzling. Just as a kaleidoscope refracts and changes the object viewed, Rekdal's subjects and protagonists are often unable to tell themselves from the stories they've been told."--Publishers Weekly

Science Fictions

'Required reading for everyone' Adam Rutherford Shortlisted for the Royal Society Science Book Prize 2021 Medicine, education, psychology, economics - wherever it really matters, we look to science for guidance. But what if science itself can't always be relied on? In this vital investigation, Stuart Ritchie reveals the disturbing flaws in today's science that undermine our understanding of the world and threaten human lives. With bias, careless mistakes and even outright forgery influencing everything from austerity economics to the anti-vaccination movement, he proposes vital remedies to save and protect science - this most valuable of human endeavours - from itself. * With a new afterword by the author * 'Thrilling... Reminds us that another world is possible' The Times, Books of the Year 'Excellent... We need better science. That's why books like this are so important' Evening Standard

Being Wrong

Being wrong is an inescapable part of being alive. And yet we go through life tacitly assuming (or loudly insisting) that we are right about nearly everything - from our political beliefs to our private memories, from our grasp of scientific fact to the merits of our favourite team. *Being Wrong* looks at why this conviction has such a powerful grip on us, what happens when this conviction is shaken, and how we interpret the moral, political and psychological significance of being wrong. Drawing on philosophies old and new and cutting-edge neuroscience, Schulz offers an exploration of the allure of certainty and the necessity of fallibility in four main areas: in religion (when the end of the world fails to be nigh); in politics (where were those WMD?); in memory (where are my keys?); and in love (when Mr or Ms Right becomes Mr or Ms Wrong).

Celestial Calculations

How to predict and calculate the positions of stars, planets, the sun, the moon, and satellites using a personal computer and high school mathematics. Our knowledge of the universe is expanding rapidly, as space probes launched decades ago begin to send information back to earth. There has never been a better time to learn about how planets, stars, and satellites move through the heavens. This book is for amateur astronomers who want to move beyond pictures of constellations in star guides and solve the mysteries of a starry night. It is a book for readers who have wondered, for example, where Saturn will appear in the night sky, when the sun will rise and set, or how long the space station will be over their location. In *Celestial Calculations*, J. L. Lawrence shows readers how to find the answers to these and other astronomy questions with only a personal computer and high school math. Using an easy-to-follow step-by-step approach, Lawrence explains what calculations are required, why they are needed, and how they all fit together. Lawrence begins with basic principles: unit of measure

conversions, time conversions, and coordinate systems. He combines these concepts into a computer program that can calculate the location of a star, and uses the same methods for predicting the locations of the sun, moon, and planets. He then shows how to use these methods for locating the many satellites we have sent into orbit. Finally, he describes a variety of resources and tools available to the amateur astronomer, including star charts and astronomical tables. Diagrams illustrate the major concepts, and computer programs that implement the algorithms are included. Photographs of actual celestial objects accompany the text, and interesting astronomical facts are interspersed throughout. Source code (in Python 3, JAVA, and Visual Basic) and executables for all the programs and examples presented in the book are available for download at <https://CelestialCalculations.github.io>.

Taking the Gardener

Mourning the sudden loss of his parents in a car crash, experienced Dom Eric Broderick escapes London society and his high-pressure law firm and retreats to Glebe House in Pittlesburne, a small village in Buckinghamshire. He tours the nearby woods and the charming village, but it's really the guesthouse's garden he's taken with-or, rather, the gardener. Tom Bestwick maintains the grounds of Glebe House for his fiancée and does odd jobs around the village. With little experience outside Pittlesburne, Tom finds fulfillment through his true passions, rugby and art. He has just one unrealized desire-one the guesthouse's new occupant would be happy to help him with. Late one night, while walking through the garden to clear his mood, Eric spies Tom enjoying a BDSM video starring two men. Having a sub to train might just help Eric forget his troubles, but as their feelings deepen, the real world intrudes. Eric can give Tom everything, but not until Tom decides where he's meant to be.

The Story of Astronomy

From the ancient origins of astronomy to the Copernican revolution, and from Galileo to Hawking's research into black holes, *The Story of Astronomy* charts the discoveries made by some of the greatest minds in human history, and their attempts to unveil the secrets of the stars. Written in an accessible and entertaining style, *The Story of Astronomy* demystifies some of the biggest breakthroughs in the history of science, as well as explaining why we have 60 minutes in an hour, how the Romans bodged the invention of the leap year and when people really discovered the Earth wasn't flat (a thousand years before Columbus). In the most straightforward and compelling of ways Peter Aughton demonstrates the beauty and wonder of what Newton, Einstein, Hubble and Hawking really achieved.

The Story of Astronomy

Traces the stories of humans interacting with the endless wonders of the night sky, beginning with the earliest superstitions and continuing through to the birth and development of the science of astronomy. The authors, both expert astronomers, researched 29 locations worldwide, from Beijing's ancient observatory to the observatory in Puerto Rico that searches for alien radio signals. They also interviewed 26 of the world's most esteemed astronomers, including Stephen Hawking. Covers such areas as: Australian Aborigines, Stonehenge, Polynesian navigators; Egyptian, Chinese and Babylonian astronomers, the Star of Bethlehem; Greek astronomers, early concepts of the Earth's shape and orbit; Galileo, Copernicus, the far universe; the Solar System and the movements of the planets; Newton, gravity, Halley; discovery of Uranus and Neptune, discovery and demotion of Pluto; what stars are made of and why they shine; Hubble, the cosmos, new galaxies, the Big Bang; pulsars, quasars and black holes; are we alone?--From publisher description.

The Story of Astronomy

Learn about planets, stars and black holes in *The Astronomy Book*. Part of the fascinating Big Ideas series, this book tackles tricky topics and themes in a simple and easy to follow format. Learn about Astronomy in this overview guide to the subject, brilliant for beginners looking to learn and experts wishing to refresh their knowledge alike! *The Astronomy Book* brings a fresh and vibrant take on the topic through eye-catching graphics and diagrams to immerse yourself in. This captivating book will broaden your understanding of Astronomy, with: - More than 100 big astronomical ideas, theories and discoveries - Packed with facts, charts, timelines and graphs to help explain core concepts - A visual approach to big subjects with striking illustrations and graphics throughout - Easy to follow text makes topics accessible for people at any level of understanding *The Astronomy Book* is the perfect introduction to the story of our ideas about space, time, and the physics of the cosmos, aimed at

adults with an interest in the subject and students wanting to gain more of an overview. Here you'll discover more than 100 of the most important theories and discoveries in the history of astronomy and the great minds behind them. If you've ever wondered about the key ideas that underpin the wonders of the universe and the great minds who uncovered them, this is the perfect book for you. Your Astronomy Questions, Simply Explained How do we measure the universe? Where is the event horizon? What is dark matter? If you thought it was difficult to learn the science of celestial objects and phenomena, The Astronomy Book presents key information in an easy to follow layout. Learn ancient speculations about the nature of the universe, through the Copernican Revolution, to the mind-boggling theories of recent science such as those of Albert Einstein and Stephen Hawking, with superb mind maps and step-by-step summaries. And delve into the work of the scientists who have shaped the subject, with biographies of key astronomers such as Ptolemy, Copernicus, Galileo, Newton, Hubble, and Hawking. The Big Ideas Series With millions of copies sold worldwide, The Astronomy Book is part of the award-winning Big Ideas series from DK. The series uses striking graphics along with engaging writing, making big topics easy to understand.

The History of Astronomy

This illustrated history of astronomy features both photographs and historical and contemporary documents from the archives of astronomical institutions, including NASA.

The Story of Astronomy

For millennia humanity has gazed in wonder at the night sky, tracked the motions of the planets and attempted to explain our place in the Universe. But only in our own time has the true scale, the astonishing variety and the remarkable strangeness of the cosmos come clearly into focus. The pace and sophistication of recent scientific discovery has been breathtaking, but breakthroughs are often difficult to understand and their impact is hard to fully appreciate. In 50 Ideas You Really Need to Know: Universe, Joanne Baker clearly and concisely explains all of the essential concepts, major discoveries and the very latest thinking in astrophysics, including: the basic principles of astronomy - from heliocentrism to Newton's theory of optics; the constituent parts of the Universe, its creation and evolution; the key concepts of cosmology including the theory of relativity, supermassive black holes and 'multiverses'; the very latest developments in our understanding of quasars, exoplanets and astrobiology. From dwarf planets to dark energy; and from the Big Bang to the death of stars, this book is the perfect introduction to the cutting-edge science that is shaping our understanding of our place in the Universe and that could lead to the next great discovery - the detection of life beyond Earth.

The Astronomy Book

A narrative introduction to the mysteries of space and the secrets of astronomy, packed with scientific facts about the solar system, comets, the Big Bang theory, telescopes, space exploration and lots more. Diagrams and amusing illustrations help make complex ideas easy and fun. Also includes star charts, a glossary, and an astronomy timeline.

Discovering the Universe

When you look up at the night sky, you're not just seeing stars. The empty blackness of space is dotted with objects of all shapes and sizes, from gigantic fiery stars to tiny specks of dust. This book explores the mysteries of space and shares the secrets of astronomy -- the science that studies the skies.

The Story of Astronomy

This book recounts the stories of the astronomical pioneers who forever changed our views of the cosmos. The chapters delve into their fascinating lives over the centuries, showing how these pivotal minds built upon the work of their predecessors and unlocked the unique properties of specific stars. From ancient astronomy to modern imaging and spectroscopy, each tale at once showcases the pace of scientific discovery and the shared passions that drove these starwatchers. Accompanying the stories are a plethora of constellation and finder charts, stellar coordinates and directions, and suggestions for viewing specific stars, all of which are visible to the naked eye or through a small telescope. In addition, the histories on specific star names and designations are given, along with an overview of the most popular catalogues and online databases that readers can use for reference.

50 Ideas You Really Need to Know: Universe

An illustrated tour of the universe, from our closest planetary neighbours, Mars and Venus, to star constellations, galaxies and black holes millions of light years away. With photographs, detailed illustrations and fascinating information about space, plus tips on trying astronomy at home and internet links to websites with the latest space news.

The Story of Astronomy and Space

What did ancient people think about the universe? What are stars and galaxies? How did we get to the moon, and where might spacecraft travel in the future?

The Story of the Heavens

Perfect for stargazers and armchair astronomers of all ages, *CONSTELLATIONS* is a beautifully illustrated, fascinating guide to all 88 constellations, including an illustrated star map for each. In *CONSTELLATIONS*, award-winning astronomy writer Govert Schilling takes us on an unprecedented visual tour of all 88 constellations in our night sky. Much more than just a stargazer's guide, *CONSTELLATIONS* is complete history of astronomy as told by Schilling through the lens of each constellation. The book is organized alphabetically by constellation. Profiles of each constellation include basic information such as size, visibility, and number of stars, as well as information on the discovery and naming of the constellation and associated lore. Beyond details about the constellation itself is information about every astronomical event that took place or discovery made in the vicinity of the constellation. In the constellation of Cygnus (the Swan) we encounter the location of the first confirmed black hole. A stop at Gemini (the Twins) is a chance to say hello to the dwarf planet Pluto, and in Orion (the hunter) we find the location of the first identified gamma-ray burst. Stunning star maps throughout the book by acclaimed star mapmaker Wil Tirion show us the exact location of every constellation, the details of its structure, as well as its surrounding astronomical neighbors.

The Story of Astronomy and Space

These five study guides, available for each book in the Wonders of Creation series, are comprehensive and invaluable for teaching settings. With terms, short answer questions, discussion questions and activity ideas, each guide will enhance the learning experience.

Stories of Astronomers and Their Stars

From an historical perspective, this text presents an entirely non-mathematical introduction to astronomy from the first endeavours of the ancients to the current developments in research enabled by cutting edge technological advances. Free of mathematics and complex graphs, the book nevertheless explains deep concepts of space and time, of relativity and quantum mechanics, and of origin and nature of the universe. It conveys not only the intrinsic fascination of the subject, but also the human side and the scientific method as practised by Kepler, defined and elucidated by Galileo, and then demonstrated by Newton.

Book of Astronomy and Space

This updated edition shows you the universe, using the latest amazing information from astronomers around the world, and space probes around the galaxy. This book includes practical information on home astronomy and buying and using equipment.

The Story of Astronomy

The First Astronomers is the first book to reveal the rich knowledge of the stars and the planets held by First Peoples around the world. Our eyes have been drawn away from the skies to our screens. We no longer look to the stars to forecast the weather, predict the seasons or plant our gardens. Most of us cannot even see the Milky Way. But First Nations Elders around the world still maintain this knowledge, and there is much we can learn from them. These Elders are expert observers of the stars. They teach that everything on the land is reflected in the sky, and everything in the sky is reflected on the land. How does this work, and how can we better understand our place in the universe? Guided by six First Nations Elders, Duane Hamacher takes us on a journey across space and time to reveal the wisdom of the first astronomers. These living systems of knowledge challenge conventional ideas about the nature

of science and the longevity of oral tradition. Indigenous science is dynamic, adapting to changes in the skies and on Earth, pointing the way for a world facing the profound disruptions of climate change. 'This book marks a profound paradigm shift in our understanding of Indigenous scientific traditions, how they are transmitted, and their relevance to life today.' - Professor Marcia Langton, University of Melbourne
'A ground-breaking book of enormous scope.' - Brian Schmidt, Nobel Laureate in Physics
'A glimpse into Indigenous ways of reading landscapes reflected in the night sky through ancient processes of inquiry.' - Dr Tyson Yunkaporta, author of Sand Talk
'A wonderful combination of scholarship and poetry.' - Dr Annette S. Lee, Lakota astrophysicist
'Beautiful, engaging, and startlingly profound.' - Alan Duffy, Professor of Astrophysics

The Story of Astronomy

SHORTLISTED FOR THE ROYAL SOCIETY SCIENCE BOOK PRIZE 2021 FINALIST FOR THE PEN/E.O. WILSON LITERARY SCIENCE WRITING AWARD AN AMAZON BEST BOOK OF 2020 To be an astronomer is to journey to some of the most inaccessible parts of the globe, braving mountain passes, sub-zero temperatures, and hostile flora and fauna. Not to mention the stress of handling equipment worth millions. It is a life of unique delights and absurdities ... and one that may be drawing to a close. Since Galileo first pointed his telescope at the heavens, astronomy has stood as a fount of human creativity and discovery, but soon it will be the robots gazing at the sky while we are left to sift through the data. In *The Last Stargazers*, Emily Levesque reveals the hidden world of the professional astronomer. She celebrates an era of ingenuity and curiosity, and asks us to think twice before we cast aside our sense of wonder at the universe.

Constellations

Travel back in time with the latest instalment in the bestselling Big Ideas series, in a brand new ebook format. The Little Book of History charts world history from the dawn of civilisation to the modern culture we live in today. From the origins of homo-sapiens to the release of Nelson Mandela, from the French Revolution to the Space Race, The Little Book of History is a stunning exploration of the human timeline up to and including modern Islam, the world wide web, and the global financial crisis. The Little Book of History tackles big historical ideas with stunning visuals, key quotes, and important themes that are woven throughout world history. Discover events from the assassination of Caesar to World War I and see the people and events come to life with The Little Book of History, perfect for students, adults, or anyone who wants to understand our fascinating past.

The Astronomy Book

Journey through time and space with the greatest astronomers in history. Astronomy is one of the oldest of all the sciences. And yet, its history is also so much more than the history of a science, reflecting our entire culture and providing insight into the evolution of humankind's ideas and ideals over the centuries. This fascinating book tells the amazing story of the development of astronomy, through the key characters in its history from Copernicus to Hubble and Halley, the excitement of new discoveries and the ways in which the history of the skies has affected our lives and how we look at the planet on which we live. *The Story of Astronomy* celebrates changing perspectives (from the Ancient Greeks to the latest scientific advances) as different cultures, philosophers and scientists sought to come to terms with their, and earth's, place in the Cosmos. Exhaustively researched and containing interviews with many of the world's leading astronomers, including Stephen Hawking, this is the ultimate history of how the universe has revealed itself to us over the millennia.

Astronomy Through the Ages

The definitive history of humanity's search to find its place within the universe. *North* charts the history of astronomy and cosmology from the Paleolithic period to the present day.

The Story of the Stars

Well-balanced, carefully reasoned study covers such topics as Ptolemaic theory, work of Copernicus, Kepler, Newton, Eddington's work on stars, much more. Illustrated. References.

The Story of the Sun, Moon, and Stars

A spectacular pictorial history of astronomical exploration, for anyone who has gazed at the sky and wondered what lies beyond. From the beginning of time, human beings have looked up at the stars and speculated on other worlds. Published to mark the fiftieth anniversary of the first moon landing, *Sun and Moon* tells the story of that burning human need to comprehend the universe, from Neolithic observatories that mark the solstice to the latest space telescopes. It shows, for the first time, how the development of photography and cartography – the means of documenting other worlds – is linked indelibly to the charting of the heavens, from the first image on a glass plate to the Hubble Space Telescope.

The Usborne Book of Astronomy & Space

This is the story of radio astronomy, of how radio waves are generated by stars, supernova, quasars, colliding galaxies, and by the very beginnings of the universe itself. This revised book provides an update on the state of radio astronomy and those sections no longer regarded as cutting edge have been removed. With this book, aimed at a lay audience, you learn what astronomers are doing with those huge dishes. With each of these observatories, the scientists collect and analyze their data, "listening" to the radio signals from space, in order to learn what is out there, and perhaps even if someone else may be listening as well.

The First Astronomers

Weird Astronomy appeals to all who are interested in unusual celestial phenomena, whether they be amateur or professional astronomers or science buffs who just enjoy reading of odd coincidences, unexplained observations, and reports from space probes that "don't quite fit." This book relates a variety of "unusual" astronomical observations – unusual in the sense of refusing to fit easily into accepted thinking, or unusual in the observation having been made under difficult or extreme circumstances. Although some of the topics covered are instances of "bad astronomy," most are not. Some of the observations recorded here have actually turned out to be important scientific breakthroughs. Included are some amusing anecdotes (such as the incident involving "potassium flares" in ordinary stars and the story of Abba 1, the solar system's own flare star!), but the book's purpose is not to ridicule those who report anomalous observations, nor is it to challenge scientific orthodoxy. It is more to demonstrate how what's "weird" often turns out to be far more significant than observations of what we expect to see.

The Last Stargazers

A fascinating tale of scientific discovery presented through breathtaking photographs and captivating commentary.

The Little Book of History

Superb full-color photographs of scientific instruments, experiments, and innovative 3-D models reveal the discoveries and research that have transformed our understanding of the Universe. Learn how space probes photograph planets, what causes a meteor shower, what makes Mars red, why the Sun shines, where the Moon came from, how the first telescopes worked, the stages in the life of a star, and more.

The Story of Astronomy

Explore the lives and achievements of more than 85 of the world's most inspirational and influential scientists with this innovative and boldly graphic biography-led book. The second title in DK's new illustrated biography series, *Scientists* profiles trailblazing individuals from Greek mathematicians, such as Archimedes and Pythagoras, through physicists of the early 20th century, such as Marie Curie and Albert Einstein, to modern greats such as Stephen Hawking and Tim Berners-Lee. Each featured individual has made a major contribution to one or more scientific fields, from physics and astronomy to chemistry, biology, and psychology, and from genetics and computer science to geology and palaeontology. Combining elements of biography, history, and analysis, *Scientists Who Changed History* explains the groundbreaking contributions made by these revolutionary men and women in a clear and informative way.

Cosmos

A Bricklayer's Guide to the Galaxy . . . The inspirational memoir of a former brickie who followed his passion for the stars and built his own observatory. Perfect for readers of Robert Macfarlane, Helen Macdonald and James Rebanks - as well as fans of Brian Cox and the BBC's Sky at Night Gary Fildes left school at sixteen, got a trade like most of his mates and was soon married with four kids. His life seemed set. But he had a secret. Something he only practised late at night with a few like-minded friends. Then one day, middle age approaching alarmingly, he acted on his lifelong passion. He finally came out. As an astronomer. Today, Gary is the founder and lead astronomer of Kielder Observatory, one of the top ten stargazing sites in the world, which he also helped to build. Situated in the beautiful forests of Kielder, Northumberland, within Europe's largest protected dark sky park, it offers some of the UK's most spectacular views of stars, planets and galaxies. An Astronomer's Tale is Gary's inspirational story: part memoir, part nature writing, part seasonal guide to the night sky. It is a book brimming with passion; and at a time when the world is captivated by space, it will leave you ready to get out there and explore the wonders of the skies for yourself.

A History of Astronomy

Sun and Moon