

# What Stars Are Made Of The Life Of Cecilia Payne G

**The Last Stargazers** Emily Levesque.2020-08-04 The story of the people who see beyond the stars—an astronomy book for adults still spellbound by the night sky. Humans from the earliest civilizations through today have craned their necks each night, using 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 in this new nonfiction release, 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 space and inspires us all to peer skyward in pursuit of the universe's secrets.

**Cecilia Payne-Gaposchkin** Cecilia Payne-Gaposchkin.1996-03-21 Scientific and personal autobiography of the greatest woman astronomer of all time. The most famous graduate from Newnham College.

**The Complete Idiot's Guide to the Sun** Jay M. Pasachoff.2003 No Marketing Blurb

**Henry Norris Russell** David H. DeVorkin.2000 Henry Norris Russell lived in two universes: that of his Presbyterian forebears and that of his science. Sharp-witted and animated by nervous energy, he became one of the most powerful voices in twentieth-century American astronomy, wielding that influence in calculated ways to redefine an entire science. He, more than any American of his generation, worked to turn an observation-centered discipline into a theory-driven pursuit centered on physics. Today, professional and amateur astronomers alike know Russell for the Hertzsprung-Russell diagram, the playing field for much of stellar astrophysics, as well as for his work on the evolution of stars and the origin of the solar system. But of far greater importance than his own research, which was truly remarkable in its own right, is Russell's stamp on the field as a whole. Functioning as a headquarters scientist--some called him General--Russell was an astronomer without a telescope. Yet he marshaled the data of the Hales and the Pickerings of the world, injected theory into mainstream astronomy, and brought atomic physics to its very core, often sparking controversy along the way. His students at Princeton went on to populate the most prestigious astronomical institutions in the United States, bringing with them Russell's beliefs that astronomy is really astrophysics and that researchers should be theoretically as well as empirically minded. This first-ever book-length biography of the Dean of American Astronomers interweaves personal and scientific history to illuminate how Russell's privileged Presbyterian family background, his education at Princeton and Cambridge, and his personal inclinations and attachments both served and were at odds with his campaign to modernize astronomy. This book will be of interest not only to astronomers and historians (particularly those interested in the emergence of astrophysics), but to anyone interested in the process of disciplinary change.

*Flashes of Creation* Paul Halpern.2021-08-17 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.

**The Fire of Stars** Kirsten W. Larson.2023-02-28 A poetic picture book celebrating the life and scientific discoveries of the groundbreaking astronomer Cecilia Payne! Astronomer and astrophysicist Cecilia Payne was the first person to discover what burns at the heart of stars. But she didn't start out as the groundbreaking scientist she would eventually become. She started out as a girl full of curiosity, hoping one day to unlock the mysteries of the universe. With lyrical, evocative text by Kirsten W. Larson and extraordinary illustrations by award-winning illustrator Katherine Roy, this moving biography powerfully parallels the kindling of Cecilia Payne's own curiosity and her scientific career with the process of a star's birth, from mere possibility in an expanse of space to an eventual, breathtaking explosion of light. **WOMEN IN STEM CAN CHANGE HISTORY:** With women making up less than 30 percent of the science and engineering workforce, supporting young girls who are interested in STEM fields is more important than ever! This picture book tells the story of Cecilia Payne, a trailblazing female astronomer and role model for young girls to relate to and see themselves in, from even the youngest age. **LOOK TO THE STARS:** Any reader or stargazer who feels dazzled by the striking night sky will be enchanted by this true story of discovery and invention, as Cecilia's contributions to science prompt us to wonder: What else is out there? **BEAUTIFUL, INSPIRING GIFT:** With compelling visual storytelling and an inspiring role model for aspiring astronomers, scientists, and engineers (and for young girls in particular), this stellar biography makes a great choice for any giving moment, from birthdays to celebrations to the holidays. Perfect for: Parents, teachers, and librarians looking to instill curiosity and encourage scientific exploration Lovers of astronomy, stargazing, space travel, and outer space Anyone seeking narrative nonfiction and biography books about women in STEM for the classroom or choice reading Gift-givers looking for a unique true story to delight and inspire girls and boys Fans of *Hidden Figures*, *Rad American Women A-Z*, and *I Am Malala*

**Parting the Cosmic Veil** Kenneth R. Lang.2007-12-31 This book describes our gradual awareness of a vast, previously concealed Universe. It is a story of expanding horizons and the discovery of invisible worlds. This voyage of discovery is presented within universal themes, such as invisibility, motion, content, form, impermanence, violence and emptiness, beginnings and ends. These are topics that concern us all, helping us take the Universe personally, so each chapter begins with the human aspect of some of these themes. The book is additionally broadened by including the perceptions of artists, poets and writers, as well as with line drawings that forcefully compact a scientific insight.

[The Book Nobody Read](#) Owen Gingerich.2009-05-26 After three decades of investigation, and after traveling hundreds of thousands of miles across the globe-from Melbourne to Moscow, Boston to Beijing-Gingerich has written an utterly original book built on his experience and the remarkable insights gleaned from examining some 600 copies of *De revolutionibus*. He found the books owned and annotated by Galileo, Kepler and many other lesser-known astronomers whom he brings back to life, which illuminate the long, reluctant process of accepting the Sun-centered cosmos and highlight the historic tensions between science and the Catholic Church. He traced the ownership of individual copies through the hands of saints, heretics, scalawags, and bibliomaniacs. He was called as the expert witness in the theft of one copy, witnessed the dramatic auction of another, and proves conclusively that *De revolutionibus* was as inspirational as it was revolutionary. Part biography of a book, part scientific exploration, part bibliographic detective story, *The Book Nobody Read* recolors the history of cosmology and offers new appreciation of the enduring power of an extraordinary book and its ideas.

**Unveiling Galaxies** Jean-René Roy.2017-10-12 A thought provoking study of the powerful impact of images in guiding astronomers' understanding of galaxies through time.

**Our Universe** Jo Dunkley.2019-04-08 Jo Dunkley combines her expertise as an astrophysicist with her talents as a writer and teacher to present an elegant introduction to the structure, history, and enduring mysteries of the universe. Among the cutting-edge phenomena discussed are the accelerating expansion of the universe and the possibility that our universe is only one of many.

**Understanding Variable Stars** John R. Percy.2007-05-24 This book was first published in 2007. Variable stars are those that change brightness. Their variability may be due to geometric processes such as rotation, or eclipse by a companion star, or physical processes such as vibration, flares, or cataclysmic explosions. In each case, variable stars provide unique information about the properties of stars, and the processes that go on within them. This book provides a concise overview of variable stars, including a historical perspective, an introduction to stars in general, the techniques for discovering and studying variable stars, and a description of the main types of variable stars. It ends with short reflections about the connection between the study of variable stars, and research, education, amateur astronomy, and public interest in astronomy. This book is intended for anyone with some background knowledge of astronomy, but is especially suitable for undergraduate students and experienced amateur astronomers who can contribute to our understanding of these important stars.

**The End of Astronauts** Donald Goldsmith,Martin Rees.2022-04-19 A History Today Book of the Year A world-renowned astronomer and an esteemed science writer make the provocative argument for space exploration without astronauts. Human journeys into space fill us with wonder. But the thrill of space travel for astronauts comes at enormous expense and is fraught with peril. As our robot explorers grow more competent, governments and corporations must ask, does our desire to send astronauts to the Moon and Mars justify the cost and danger? Donald Goldsmith and Martin Rees believe that beyond low-Earth orbit, space exploration should proceed without humans. In *The End of Astronauts*, Goldsmith and Rees weigh the benefits and risks of human exploration across the solar system. In space humans require air, food, and water, along with protection from potentially deadly radiation and high-energy particles, at a cost of more than ten times that of robotic exploration. Meanwhile, automated explorers have demonstrated the ability to investigate planetary surfaces efficiently and effectively, operating autonomously or under direction from Earth. Although Goldsmith and Rees are alert to the limits of artificial intelligence, they know that our robots steadily improve, while our bodies do not. Today a robot cannot equal a geologist's expertise, but by the time we land a geologist on Mars, this advantage will diminish significantly. Decades of research and experience, together with interviews with scientific authorities and former astronauts, offer convincing arguments that robots represent the future of space exploration. *The End of Astronauts* also examines how spacefaring AI might be regulated as corporations race to privatize the stars. We may eventually decide that humans belong in space despite the dangers and expense, but their paths will follow routes set by robots.

**The Glass Universe** Dava Sobel.2016-12-06 From #1 New York Times bestselling author Dava Sobel, the inspiring (People), little-known true story of women's landmark contributions to astronomy A New York Times Book Review Notable Book of 2017 Named one of the best books of the year by NPR, The Economist, Smithsonian, Nature, and NPR's Science Friday Nominated for the PEN/E.O. Wilson Literary Science Writing Award A joy to read." —The Wall Street Journal In the mid-nineteenth century, the Harvard College Observatory began employing women as calculators, or "human computers," to interpret the observations their male counterparts made via telescope each night. At the outset this group included the wives, sisters, and daughters of the resident astronomers, but soon the female corps included graduates of the new women's colleges—Vassar, Wellesley, and Smith. As photography transformed the practice of astronomy, the ladies turned from computation to studying the stars captured nightly on glass photographic plates. The "glass universe" of half a million plates that Harvard amassed over the ensuing decades—through the generous support of Mrs. Anna Palmer Draper, the widow of a pioneer in stellar photography—enabled the women to make extraordinary discoveries that attracted worldwide acclaim. They helped discern what stars were made of, divided the stars into meaningful categories for further research, and found a way to measure distances across space by starlight. Their ranks included Williamina Fleming, a Scottish woman originally hired as a maid who went on to identify ten novae and more than three hundred variable stars; Annie Jump Cannon, who designed a stellar classification system that was adopted by astronomers the world over and is still in use; and Dr. Cecilia Helena Payne, who in 1956 became the first ever woman professor of astronomy at Harvard—and Harvard's first female department chair. Elegantly written and enriched by excerpts from letters, diaries, and memoirs, *The Glass Universe* is the hidden history of the women whose contributions to the burgeoning field of astronomy forever changed our understanding of the stars and our place in the universe.

**What Stars Are Made Of** Donovan Moore.2020 Cecilia Payne-Gaposchkin was the revolutionary scientific thinker who discovered what stars are made of. But her name is hard to find alongside those of Hubble, Herschel, and other great astronomers. Donovan Moore tells the story of Payne's life of determination against all the obstacles a patriarchal society erected against her.

**Women in the History of Variable Star Astronomy** Dorrit Hoffleit.1993

**Beyond Curie** Scott Calvin.2017-07-31 In the 116 year history of the Nobel Prize in Physics, only two women have won the award; Marie Curie (1903) and Maria Mayer (1963). During the 60 years between those awards, several women did work of similar calibre. This book focuses on those women, providing biographies for each that discuss both how they made their discoveries and the gender-specific reception of those discoveries. It also discusses the Nobel process and how society and the scientific community's treatment of them were influenced by their gender.

**Who's Black and Why?** Henry Louis Gates Jr.,Andrew S. Curran.2022-03-22 2023 PROSE Award in European History "An invaluable historical example of the creation of a scientific conception of race that is unlikely to disappear anytime soon." —Washington Post "Reveals how prestigious natural scientists once sought physical explanations, in vain, for a social identity that continues to carry enormous significance to this day." —Nell Irvin Painter, author of *The History of White People* "A fascinating, if disturbing, window onto the origins of racism." —Publishers Weekly "To read [these essays] is to witness European intellectuals, in the age of the Atlantic slave trade, struggling, one after another, to justify atrocity." —Jill Lepore, author of *These Truths: A History of the United States* In 1739 Bordeaux's Royal Academy of Sciences announced a contest for the best essay on the sources of "blackness." What is the physical cause of blackness and African hair, and what is the cause of Black degeneration, the contest announcement asked. Sixteen essays, written in French and Latin, were ultimately dispatched from all over Europe. Documented on each page are European ideas about who is Black and why. Looming behind these essays is the fact that some four million Africans had been kidnapped and shipped across the Atlantic by the time the contest was announced. The essays themselves represent a broad range of opinions, which nonetheless circulate around a common theme: the search for a scientific understanding of the new concept of race. More important, they provide an indispensable record of the Enlightenment-era thinking that normalized the sale and enslavement of Black human beings. These never previously published documents survived the centuries tucked away in Bordeaux's municipal library. Translated into English and accompanied by a detailed introduction and headnotes written by Henry Louis Gates, Jr., and Andrew Curran, each essay included in this volume lays bare the origins of anti-Black racism and colorism in the West.

**Forgotten Women: The Leaders** Zing Tsjeng,Zhi Ying Tsjeng.2018-03-08 Selected for the Evening Standard present gift guide of the year 'To say this series is empowering doesn't do it justice. Buy a copy for your daughters, sisters, mums, aunts and nieces - just make sure you buy a copy for your sons, brothers, dads, uncles and nephews, too.' - indy100 'Here's to no more forgotten women.' Evening Standard The women who shaped and were erased from our history. The *Forgotten Women* series will uncover the lost histories of the influential women who have refused over hundreds of years to accept the hand they've been dealt and, as a result, have formed, shaped and changed the course of our futures. *The Leaders* weaves together 48\* unforgettable portraits of the true pioneers and leaders who made huge yet unacknowledged contributions to history, including: Grace O'Malley, the 16th century Irish pirate queen Sylvia Rivera, who spearheaded the modern transgender rights movement Agent 355, the unknown rebel spy who played a pivotal role in the American Revolution Noor Inayat Khan, who went undercover to spy for the French Resistance and became Nazi enemy no. 1 Amina of Zazzau, the formidable ancient Muslim warrior queen of Northern Nigeria Chapters including Rebels; Warriors; Rulers; Activists and Reformers shine a spotlight on the rebellious women who defied the odds, and the opposition, to change the world around them. \*The number of Nobel-prize-

winning women.

**Essential Astrophysics** Kenneth R. Lang.2013-05-24 Essential Astrophysics is a book to learn or teach from, as well as a fundamental reference volume for anyone interested in astronomy and astrophysics. It presents astrophysics from basic principles without requiring any previous study of astronomy or astrophysics. It serves as a comprehensive introductory text, which takes the student through the field of astrophysics in lecture-sized chapters of basic physical principles applied to the cosmos. This one-semester overview will be enjoyed by undergraduate students with an interest in the physical sciences, such as astronomy, chemistry, engineering or physics, as well as by any curious student interested in learning about our celestial science. The mathematics required for understanding the text is on the level of simple algebra, for that is all that is needed to describe the fundamental principles. The text is of sufficient breadth and depth to prepare the interested student for more advanced specialised courses in the future. Astronomical examples are provided throughout the text, to reinforce the basic concepts and physics, and to demonstrate the use of the relevant formulae. In this way, the student learns to apply the fundamental equations and principles to cosmic objects and situations. Astronomical and physical constants and units as well as the most fundamental equations can be found in the appendix. Essential Astrophysics goes beyond the typical textbook by including references to the seminal papers in the field, with further reference to recent applications, results, or specialised literature.

Worlds in Collision Immanuel Velikovsky.2018-06 Velikovsky presents the revolutionary results of his 10-year-long interdisciplinary research into modern catastrophism based on eyewitness reports by ancestors, which shook the doctrine of uniformity of geology as well as Darwin's theory of evolution.

**Cosmic Horizons** Steven Soter,Neil deGrasse Tyson.2001 Leading scientists offer a collection of essays that furnish illuminating explanations of recent discoveries in modern astrophysics--from the Big Bang to black holes--the possibility of life on other worlds, and the emerging technologies that make such research possible, accompanied by incisive profiles of such key figures as Carl Sagan and Georges Lemaetre. Original.

**The Pope of Physics** Gino Segrè,Bettina Hoerlin.2016-10-18 Enrico Fermi is unquestionably among the greats of the world's physicists, the most famous Italian scientist since Galileo. Called the Pope by his peers, he was regarded as infallible in his instincts and research. His discoveries changed our world; they led to weapons of mass destruction and conversely to life-saving medical interventions. This unassuming man struggled with issues relevant today, such as the threat of nuclear annihilation and the relationship of science to politics. Fleeing Fascism and anti-Semitism, Fermi became a leading figure in America's most secret project: building the atomic bomb. The last physicist who mastered all branches of the discipline, Fermi was a rare mixture of theorist and experimentalist. His rich legacy encompasses key advances in fields as diverse as comic rays, nuclear technology, and early computers. In their revealing book, The Pope of Physics, Gino Segrè and Bettina Hoerlin bring this scientific visionary to life. An examination of the human dramas that touched Fermi's life as well as a thrilling history of scientific innovation in the twentieth century, this is the comprehensive biography that Fermi deserves.

What Stars Are Made Of Sarah Allen.2020-03-31 A Mighty Girl Best Book of 2020! From debut author Sarah Allen comes a pitch-perfect, heartwarming middle grade novel about growing up, finding yourself, and loving people with everything you're made of. Twelve-year-old Libby Monroe is great at science, being optimistic, and talking to her famous, accomplished friends (okay, maybe that last one is only in her head). She's not great at playing piano, sitting still, or figuring out how to say the right thing at the right time in real life. Libby was born with Turner Syndrome, and that makes some things hard. But she has lots of people who love her, and that makes her pretty lucky. When her big sister Nonny tells her she's pregnant, Libby is thrilled—but worried. Nonny and her husband are in a financial black hole, and Libby knows that babies aren't always born healthy. So she strikes a deal with the universe: She'll enter a contest with a project about Cecilia Payne, the first person to discover what stars are made of. If she wins the grand prize and gives all that money to Nonny's family, then the baby will be perfect. Does she have what it takes to care for the sister that has always cared for her? And what will it take for the universe to notice?

Stellar Atmospheres Cecilia Helena Payne Gaposchkin.1925 Original thesis submitted to Radcliffe College. The typescript is a summary of the thesis with handwritten ink insertions. The galley proof contains the full text and bears blue and graphite pencil markings. A library thesis use form is affixed to the bottom of the first page of the galley.

**The Structure And Evolution Of Stars** Eldridge J J,Tout Christopher Adam.2018-12-06 Stars are the fundamental observable constituents of the Universe. They are the first objects we see in the night sky, they dominate the light produced in our own and other galaxies, and nucleosynthesis in stars produces all the elements heavier than helium. A knowledge of stars and their evolution is vital to understand other astrophysical objects from accreting black holes and galaxies to the Universe itself.The structure of a star can be described mathematically by differential equations derived from the principles of hydrodynamics, electromagnetic theory, thermodynamics, quantum mechanics, atomic and nuclear physics. The basic equations of a spherical star are derived in detail at an accessible level. The topics discussed include modes of energy transport, the equation of state, the physics of the opacity sources and the nuclear reactions. Attention is also given to the virial theorem, polytropic gas spheres and homology principles and the procedure for numerical solution of the equations is outlined. This book tracks the evolution of stars from their main-sequence evolution through the exhaustion of various nuclear fuels to the end points of evolution and also introduces the topic of interacting binary stars. The aim is to take the reader from the essential underlying physical principles to the doors to current research on stellar interiors.

**Asteroseismology** C. Aerts,J. Christensen-Dalsgaard,D. W. Kurtz.2010-01-19 Understanding the stars is the bedrock of modern astrophysics. Stars are the source of life. The chemical enrichment of our Milky Way and of the Universe withallelementsheavierthanlithiumoriginatesintheinteriorsofstars.Stars arethe tracersofthe dynamics ofthe Universe,gravitationallyimplying much more than meets the eye. Stars ionize the interstellar medium and re-ionized the early intergalactic medium. Understanding stellar structure and evolution is fundamental. While stellar structure and evolution are understood in general terms, we lack important physical ingredients, despite extensive research during recent decades.Classicalspectroscopy,photometry,astrometryandinterferometryof stars have traditionally been used as observational constraints to deduce the internal stellar physics. Unfortunately, these types of observations only allow the tuning of the basic common physics laws under stellar conditions with relatively poor precision. The situation is even more worrisome for unknown aspects of the physics and dynamics in stars. These are usually dealt with by using parameterised descriptions of, e.g., the treatments of convection, rotation,angularmomentumtransport,theequationofstate,atomicdi?usion andsettlingofelements,magneto-hydrodynamicalprocesses,andmore.There is a dearth of observational constraints on these processes, thus solar values areoftenassignedtothem.Yetitishardtoimaginethatonesetofparameters is appropriate for the vast range of stars.

**Policing the Open Road** Sarah A. Seo.2019 Policing the Open Road examines how the rise of the car, that symbol of American personal freedom, inadvertently led to ever more intrusive policing--with disastrous consequences for racial equality in our criminal justice system. When Americans think of freedom, they often picture the open road. Yet nowhere are we more likely to encounter the long arm of the law than in our cars. Sarah Seo reveals how the rise of the automobile transformed American freedom in radical ways, leading us to accept--and expect--pervasive police power. As Policing the Open Road makes clear, this expectation has had far-reaching political and legal consequences.--

What Stars Are Made Of Donovan Moore.2020-03-03 A New Scientist Book of the Year A Physics Today Book of the Year A Science News Book of the Year The history of science is replete with women getting little notice for their groundbreaking discoveries. Cecilia Payne-Gaposchkin, a tireless innovator who correctly theorized the substance of stars, was one of them. It was not easy being a woman of ambition in early twentieth-century England, much less one who wished to be a scientist. Cecilia Payne-Gaposchkin overcame prodigious obstacles to become a woman of many firsts: the first to receive a PhD in astronomy from Radcliffe College, the first promoted to full professor at Harvard, the first to head a department there. And, in what has been called "the most brilliant PhD thesis ever written in astronomy," she was the first to describe what stars are made of. Payne-Gaposchkin lived in a society that did not know what to make of a determined schoolgirl who wanted to know everything. She was derided in college and refused a degree. As a graduate student, she faced

formidable skepticism. Revolutionary ideas rarely enjoy instantaneous acceptance, but the learned men of the astronomical community found hers especially hard to take seriously. Though welcomed at the Harvard College Observatory, she worked for years without recognition or status. Still, she accomplished what every scientist yearns for: discovery. She revealed the atomic composition of stars—only to be told that her conclusions were wrong by the very man who would later show her to be correct. In *What Stars Are Made Of*, Donovan Moore brings this remarkable woman to life through extensive archival research, family interviews, and photographs. Moore retraces Payne-Gaposchkin's steps with visits to cramped observatories and nighttime bicycle rides through the streets of Cambridge, England. The result is a story of devotion and tenacity that speaks powerfully to our own time.

**The Structure of the Sun** T. Roca Cortes, F. Sánchez, Francisco Sanchez. 1996-08-28 The complex internal structure of the Sun can now be studied in detail through helioseismology and neutrino astronomy. The VI Canary Islands Winter School of Astrophysics was dedicated to examining these powerful new techniques. Based on this meeting, eight specially-written chapters by world-experts are presented in this timely volume. We are shown how the internal composition and dynamical structure of the Sun can be deduced through helioseismology; and how the central temperature can be determined from the flux of solar neutrinos. This volume provides an excellent introduction for graduate students and an up-to-date overview for researchers working on the Sun, neutrino astronomy and helio- and asteroseismology.

**Alien Oceans** Kevin Hand. 2021-09-21 Inside the epic quest to find life on the water-rich moons at the outer reaches of the solar system Where is the best place to find life beyond Earth? We often look to Mars as the most promising site in our solar system, but recent scientific missions have revealed that some of the most habitable real estate may actually lie farther away. Beneath the frozen crusts of several of the small, ice-covered moons of Jupiter and Saturn lurk vast oceans that may have existed for as long as Earth, and together may contain more than fifty times its total volume of liquid water. Could there be organisms living in their depths? *Alien Oceans* reveals the science behind the thrilling quest to find out. Kevin Peter Hand is one of today's leading NASA scientists, and his pioneering research has taken him on expeditions around the world. In this captivating account of scientific discovery, he brings together insights from planetary science, biology, and the adventures of scientists like himself to explain how we know that oceans exist within moons of the outer solar system, like Europa, Titan, and Enceladus. He shows how the exploration of Earth's oceans is informing our understanding of the potential habitability of these icy moons, and draws lessons from what we have learned about the origins of life on our own planet to consider how life could arise on these distant worlds. *Alien Oceans* describes what lies ahead in our search for life in our solar system and beyond, setting the stage for the transformative discoveries that may await us.

**Vera Rubin** Jacqueline Mitton, Simon Mitton. 2021-02-11 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.

**Evolution of Stars and Galaxies** Walter 1893-1960 Baade. 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

*The Stars Of High Luminosity* Cecilia H Payne. 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

**Miss Leavitt's Stars: The Untold Story of the Woman Who Discovered How to Measure the Universe (Great Discoveries)** George Johnson. 2006-06-17 "A short, excellent account of [Leavitt's] extraordinary life and achievements."—Simon Singh, *New York Times Book Review* At the beginning of the twentieth century, scientists argued over the size of the universe: was it, as the astronomer Harlow Shapley argued, the size of the Milky Way, or was there more truth to Edwin Hubble's claim that our own galaxy is just one among billions? The answer to the controversy—a "yardstick" suitable for measuring the cosmos—was discovered by Henrietta Swan Leavitt, who was employed by the Harvard Observatory as a number cruncher, at a wage not dissimilar from that of workers in the nearby textile mills. *Miss Leavitt's Stars* uncovers her neglected history, and brings a fascinating and turbulent period of astronomical history to life.

**First Light** Emma Chapman. 2020-11-26 Astronomers have successfully observed a great deal of the Universe's history, from recording the afterglow of the Big Bang to imaging thousands of galaxies, and even to visualising an actual black hole. There's a lot for astronomers to be smug about. But when it comes to understanding how the Universe began and grew up we are literally in the dark ages. In effect, we are missing the first one billion years from the timeline of the Universe. This brief but far-reaching period in the Universe's history, known to astrophysicists as the 'Epoch of Reionisation', represents the start of the cosmos as we experience it today. The time when the very first stars burst into life, when darkness gave way to light. After hundreds of millions of years of dark, uneventful expansion, one by the one these stars suddenly came into being. This was the point at which the chaos of the Big Bang first began to yield to the order of galaxies, black holes and stars, kick-starting the pathway to planets, to comets, to moons, and to life itself. Incorporating the very latest research into this branch of astrophysics, this book sheds light on this time of darkness, telling the story of these first stars, hundreds of times the size of the Sun and a million times brighter, lonely giants that lived fast and died young in powerful explosions that seeded the Universe with the heavy elements that we are made of. Emma Chapman tells us how these stars formed, why they were so unusual, and what they can teach us about the Universe today. She also offers a first-hand look at the immense telescopes about to come on line to peer into the past, searching for the echoes and footprints of these stars, to take this period in the Universe's history from the realm of theoretical physics towards the wonder of observational astronomy.

**A Catalogue of the Organic Remains of the County of Wiltshire** Etheldred Benett. 1831

Portrait of a Binary Sylvia L. Boyd.2014

**Fugitive Pedagogy** Jarvis R. Givens.2021-04-13 A fresh portrayal of one of the architects of the African American intellectual tradition, whose faith in the subversive power of education will inspire teachers and learners today. Black education was a subversive act from its inception. African Americans pursued education through clandestine means, often in defiance of law and custom, even under threat of violence. They developed what Jarvis Givens calls a tradition of “fugitive pedagogy”—a theory and practice of Black education in America. The enslaved learned to read in spite of widespread prohibitions; newly emancipated people braved the dangers of integrating all-White schools and the hardships of building Black schools. Teachers developed covert instructional strategies, creative responses to the persistence of White opposition. From slavery through the Jim Crow era, Black people passed down this educational heritage. There is perhaps no better exemplar of this heritage than Carter G. Woodson—groundbreaking historian, founder of Black History Month, and legendary educator under Jim Crow. Givens shows that Woodson succeeded because of the world of Black teachers to which he belonged: Woodson’s first teachers were his formerly enslaved uncles; he himself taught for nearly thirty years; and he spent his life partnering with educators to transform the lives of Black students. Fugitive Pedagogy chronicles Woodson’s efforts to fight against the “mis-education of the Negro” by helping teachers and students to see themselves and their mission as set apart from an anti-Black world. Teachers, students, families, and communities worked together, using Woodson’s materials and methods as they fought for power in schools and continued the work of fugitive pedagogy. Forged in slavery, embodied by Woodson, this tradition of escape remains essential for teachers and students today.

*The Harvard College Observatory* Bessie Zaban Jones,Lyle Gifford Boyd.1971 Since its founding in 1839, the Harvard College Observatory has pioneered in the development of modern astronomy. Its first directors early recognized the potential of spectroscopy in revealing the constitution of the stars, and of photography in determining the positions and motions of celestial objects; the library of photographic plates made under their direction provides an invaluable history of the stellar universe for the period. The Observatory also pioneered in using the talents of women, several of whom became noted astronomers, and their monumental classification of stars from spectral records constitutes a fundamental contribution to astronomical knowledge. The authors vividly portray the genesis, growth, and achievements of a major scientific institution and its relations with other observatories. Through the use of photographs and correspondence they also portray the men and women who played essential roles in the development of astronomy in the nineteenth and early twentieth centuries.

Seven Pillars of Science John Gribbin.2020-09-24 John Gribbin, author of *Six Impossible Things*, shortlisted for the Royal Society Insight Investment Science Book Prize, presents a tour of seven fundamental scientific truths that underpin our very existence. These 'pillars of science' also defy common sense. For example, solid things are mostly empty space, so how do they hold together? There appears to be no special 'life force', so how do we distinguish living things from inanimate objects? And why does ice float on water, when most solids don't? You might think that question hardly needs asking, and yet if ice didn't float, life on Earth would never have happened. The answers to all of these questions were sensational in their day, and some still are. Throughout history, science has been able to think the unthinkable - and Gribbin brilliantly shows the surprising secrets on which our understanding of life is based.

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