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KEY=THE - HUDSON STEWART

THE HAUNTED OBSERVATORY

CURIOSITIES FROM THE ASTRONOMER'S CABINET

Prometheus Books

VENUS

Reaktion Books From the latest scientific advances to observation advice for amateur astronomers, a beautifully illustrated exploration of one of Earth's closest neighbors. This book is a new, beautifully illustrated account of Venus, taking in the most recent research into this mysterious, inhospitable world. The book looks at the history of our observations of the planet, from early astronomy to future space missions, and seeks to shed light on many of the questions that remain unanswered, such as why Venus and the Earth—so similar in size and mass—evolved in such different directions, and how Venus acquired its dense carbon-dioxide atmosphere. Above all, Venus assesses whether life might have escaped from the oven-like temperatures at the surface and evolved to become perpetually airborne—in which case Venus may not be lifeless after all.

NEPTUNE: FROM GRAND DISCOVERY TO A WORLD REVEALED

ESSAYS ON THE 200TH ANNIVERSARY OF THE BIRTH OF JOHN COUCH

ADAMS

Springer Nature The 1846 discovery of Neptune is one of the most remarkable stories in the history of science and astronomy. John Couch Adams and U.J. Le Verrier both investigated anomalies in the motion of Uranus and independently predicted the existence and location of this new planet. However, interpretations of the events surrounding this discovery have long been mired in controversy. Who first predicted the new planet? Was the discovery just a lucky fluke? The ensuing storm engaged astronomers across Europe and the United States. Written by an international group of authors, this pathbreaking volume explores in unprecedented depth the contentious history of Neptune's discovery, drawing on newly discovered documents and re-examining the historical record. In so doing, we gain new understanding of the actions of key individuals and sharper insights into the pressures acting on them. The discovery of Neptune was a captivating mathematical moment and was widely regarded at the time as the greatest triumph of Newton's theory of universal gravitation. The book therefore begins with Newton's development of his ideas of gravity. It examines too the mathematical calculations related to the discovery of Neptune, using new theories and tools provided by advances in celestial mechanics over the past twenty years. Through this process, the book analyzes why the mathematical approach that proved so potent in the discovery of Neptune, grand as it was, could not help produce similar discoveries despite several valiant attempts. In the final chapters, we see how the discovery of Neptune marked the end of one quest—to explain the wayward motions of Uranus—and the beginning of another quest to fill in the map and understand the nature of the outer Solar System, whose icy precincts Neptune, as the outermost of the giant planets, bounds.

MYSTERY OF THE ASHEN LIGHT ON VENUS

INVESTIGATING A 400-YEAR-OLD PHENOMENON

Springer Nature The Ashen Light of Venus -- a ghostly emission of light from the night side of our nearest planetary neighbor among the last unsolved mysteries of astronomical history. In the four centuries since the phenomenon was first reported, highly reputable visual observers of Venus have recorded seeing the Ashen Light, while others have spent a lifetime searching for it without once being convinced that they ever saw it. Is the Ashen Light a trick of the eye? The result of a defective lens? A real scientific event? Occasional references to the Ashen Light are scattered across the literature, yet no work to date has synthesized these records. This book therefore digs deep into the history of the mystery and our latest attempts to understand it, sifting through the clues that might explain whether it is caused by physics, is conjured up by the eye or brain, or a combination of both. This baffling story will appeal to amateur astronomers, hobbyists, and lay readers interested in joining the debate about one of the most elusive observable phenomena ever recorded in the night sky.

THE STORY OF THE UNIVERSE IN 100 STARS

The Experiment These 100 amazing stars shine a light on astronomy's greatest hits

and their enduring impact on our culture. With roughly 100 billion stars in the Milky Way alone, the cosmos is simply too vast for an unabridged tell-all. But here's the next best thing: 100 stars—bright and faint, near and far, famous and obscure, long dead and as-yet unborn, red, yellow, blue, and white (but, as you'll learn, never green)—handpicked by astronomer Florian Freistetter because they have the very best stories to tell: GRB 080319B, the farthest we've seen into space with the naked eye Gamma Draconis, the star that proved Earth rotates on its axis V1364 CYGNI, pivotal in the discovery of dark matter 72 Tauri, definitive evidence for Einstein's theory of relativity V1, which revealed horizons beyond the Milky Way Algol, called the Demon Star for its mysterious blinking—and many more! Freistetter's short, easy-to-read profiles not only invite you to gaze into the past and future of the universe, they introduce a stellar cast of scientists who came before: from Annie Jump Cannon, who revolutionized how we classify the stars, to Dorrit Hoffleit, who first counted them. Enjoy your journey through the cosmos. . . .

THE UNIVERSE TODAY ULTIMATE GUIDE TO VIEWING THE COSMOS

EVERYTHING YOU NEED TO KNOW TO BECOME AN AMATEUR ASTRONOMER

Page Street Publishing The Definitive Resource for Viewing the Night Sky David Dickinson, Earth science teacher and backyard astronomer, and Fraser Cain, publisher of Universe Today, have teamed up to provide expert guidance on observing the night sky. The Universe Today Ultimate Guide to Viewing the Cosmos features the best tips and tricks for viewing our solar system and deep sky objects, as well as detailed charts, graphs and tables to find must-see events for years to come. This comprehensive guide is complete with stunning and exclusive photography from top night sky photographers, as well as advice on how to take your own incredible photos. Take your recreational viewing to the next level with activities like: Finding comets and asteroids Tracking variable stars Monitoring meteor showers Following solar activity Tracking satellites Timing lunar and asteroid occultations With star charts, practical background information, technological resources and telescope and astrophotography guides, this is the ultimate resource for any backyard space enthusiast.

GALACTIC ENCOUNTERS

OUR MAJESTIC AND EVOLVING STAR-SYSTEM, FROM THE BIG BANG TO TIME'S END

Springer Written by William Sheehan, a noted historian of astronomy, and Christopher J. Conselice, a professional astronomer specializing in galaxies in the early universe, this book tells the story of how astronomers have pieced together what is known about the vast and complicated systems of stars and dust known as galaxies. The first galaxies appeared as violently disturbed exotic objects when the Universe was only a few 100 million years old. From that tortured beginning, they have evolved through processes of accretion, merging and star formation into the majestic spirals and massive ellipticals that dominate our local part of the Universe.

This of course includes the Milky Way, to which the Sun and Solar System belong; it is our galactic home, and the only galaxy we will ever know from the inside. Sheehan and Conselice show how astronomers' understanding has grown from the early catalogs of Charles Messier and William Herschel; developed through the pioneering efforts of astronomers like E.E. Barnard, V.M. Slipher, Henrietta Leavitt, Edwin Hubble and W.W. Morgan; and finally is reaching fruition in cutting-edge research with state-of-the-art instruments such as the Hubble Space Telescope that can see back to nearly the beginning of the Universe. By combining archival research that reveals fascinating details about the personalities, rivalries and insights of the astronomers who created extragalactic astronomy with the latest data gleaned from a host of observations, the authors provide a view of galaxies – and their place in our understanding of the Universe – as they have never been seen before.

DISCOVERING PLUTO

EXPLORATION AT THE EDGE OF THE SOLAR SYSTEM

University of Arizona Press *Discovering Pluto* is an authoritative account of the exploration of Pluto and its moons, from the first inklings of tentative knowledge through the exciting discoveries made during the flyby of the NASA New Horizons research spacecraft in July 2015. Co-author Dale P. Cruikshank was a co-investigator on the New Horizons mission, while co-author William Sheehan is a noted historian of the Solar System. Telling the tale of Pluto's discovery, the authors recount the grand story of our unfolding knowledge of the outer Solar System, from William Herschel's serendipitous discovery of Uranus in 1781, to the mathematical prediction of Neptune's existence, to Percival Lowell's studies of the wayward motions of those giant planets leading to his prediction of another world farther out. Lowell's efforts led to Clyde Tombaugh's heroic search and discovery of Pluto—then a mere speck in the telescope—at Lowell Observatory in 1930. Pluto was finally recognized as the premier body in the Kuiper Belt, the so-called third zone of our Solar System. The first zone contains the terrestrial planets (Mercury through Mars) and the asteroid belt; the second, the gas-giant planets Jupiter through Neptune. The third zone, holding Pluto and the rest of the Kuiper Belt, is the largest and most populous region of the solar system. Now well beyond Pluto, New Horizons will continue to wend its lonely way through the galaxy, but it is still transmitting data, even today. Its ultimate legacy may be to inspire future generations to uncover more secrets of Pluto, the Solar System, and the Universe.

MERCURY

LIBRARY JOURNAL

Includes, beginning Sept. 15, 1954 (and on the 15th of each month, Sept.-May) a special section: School library journal, ISSN 0000-0035, (called Junior libraries, 1954-May 1961). Also issued separately.

THE PUBLISHERS WEEKLY

ISIS CURRENT BIBLIOGRAPHY OF THE HISTORY OF SCIENCE AND ITS CULTURAL INFLUENCES

THE BOOK REVIEW DIGEST

ANNUAL CUMULATION

CHOICE

PUBLICATION OF THE ASSOCIATION OF COLLEGE AND RESEARCH LIBRARIES, A DIVISION OF THE AMERICAN LIBRARY ASSOCIATION

DICTIONARY OF GEOPHYSICS, ASTROPHYSICS, AND ASTRONOMY

CRC Press The Dictionary of Geophysics, Astrophysics, and Astronomy provides a lexicon of terminology covering fields such as astronomy, astrophysics, cosmology, relativity, geophysics, meteorology, Newtonian physics, and oceanography. Authors and editors often assume - incorrectly - that readers are familiar with all the terms in professional literature. With over 4,000 definitions and 50 contributing authors, this unique comprehensive dictionary helps scientists to use terminology correctly and to understand papers, articles, and books in which physics-related terms appear.

DARK SKY LEGACY

ASTRONOMY'S IMPACT ON THE HISTORY OF CULTURE

Prometheus Books The way mankind has responded to the dark sky throughout history has determined humanity's scientific - and cultural - progress. In this way, astronomy is in some way connected to everything. This fascinating theme is explored in Dark Sky Legacy. George Reed examines the powerful influence of the cosmos on cultural and societal development, reviewing mankind's historical propensity for projecting human experience into a cosmic framework and the centuries-old relationship between astronomy and astrology, the result of which is the emergence of the age of science. Since then, he writes, the purpose of astronomy has been to observe celestial objects for the advancement of scientific knowledge, while astrology deals only in the possibility that celestial bodies influence events on Earth. Reed asserts that the movement away from an inward-looking, meaningful cosmos toward an outward-gazing, impersonal one is a shift that has had enormous repercussions in every aspect of human life. He points out that astrology provides a scheme in which the believer is an integral component of an animistic, cyclical universe. Conversely, the pursuit of science and astronomy is a mechanistic, linear activity, which seeks extrinsic answers in terms of precise relationships between sense perceptions. Dark Sky Legacy probes the divergent approaches to the universe that compel individuals and cultures to pursue astrology or astronomy, the intuitive or the analytical. Blending modern science, ancient science, mythology, history, literature, and naked-eye astronomy, and spiced with fascinating detail about astronomy, astrology, celestial mythology, and calendar development, the book is an engrossing study of the profound impact of mankind's relationship with

the universe.

KNACK NIGHT SKY

DECODING THE SOLAR SYSTEM, FROM CONSTELLATIONS TO BLACK HOLES

Rowman & Littlefield Knack Night Sky is an ode to the solar system in its awe-inspiring complexity. This book shows you ways to find stars, constellations, and other celestial objects, photos, comets, and meteor showers from the past and comets and meteor showers to come.

FALLING SKY

THE SCIENCE AND HISTORY OF METEORITES AND WHY WE SHOULD LEARN TO LOVE THEM

Rowman & Littlefield Did an enormous collision in the Asteroid Belt, orbiting the sun between Mars and Jupiter, bombard Earth with meteorites 470 million years ago? Astonishing new research suggests it did, and a revolutionary theory is emerging that this bombardment resulted in the single greatest increase in biological diversity on the planet since the origin of life. Introducing these discoveries to the general public for the first time, Ted Nield challenges the view that meteorites are bad news. Tracing the history of meteorites from the first recorded strike to the videos made routinely today, he reveals the fascinating ways in which meteorites have transformed from omens of doom to a stepping stone to Mars in twenty-first-century space exploration. The Falling Sky will shatter everything you thought you knew about one of the most terrifying forces in the universe.

COSMIC DISCOVERIES

THE WONDERS OF ASTRONOMY

Prometheus Books The New York Times Book Review has praised David Levy:Levy captures the personal thrill of discovery.As I scanned the night sky the centuries fell away, and I felt myself taking my place in line with other men and women who had done the same thing. . . . Why do people search the sky? What's in it for them? And more important, what's in it for the rest of us? -David H. LevyFor many millennia the starry night sky has been a source of wonder and awe to men and women who have tried to unravel the mystery of the billion distant lights that fill the heavens after dark. The story of the great discoverers who succeeded in explaining part of the mystery is told here with the joy and infectious enthusiasm that only a fellow discoverer can convey. David Levy, codiscoverer of Comet Shoemaker-Levy 9, with his wife, Wendee Wallach-Levy, evokes that marvelous moment of Eureka! as he masterfully relates each story. He gives the reader a glimpse of the enthralling adventure of cosmic discovery through stories of the most famous and brilliant astronomers. Beyond their personal accomplishments, these scientists expanded all of humanity's understanding of the universe and our place within it.For example, Galileo's breathtaking discovery of the moons of Jupiter, new worlds that refused to

orbit the sun, challenged the whole doctrine of the earth being the center of the universe. With the start of the 20th century, Shapley pushed back the envelope that had been opened by Galileo by proving that the center of our galaxy is very far beyond our own sun. And Hubble showed that even our galaxy is but a tiny part of a universe that is rapidly expanding. In describing these milestones of science, Levy reveals his own spirited conversations with such luminaries of the imagination as the discoverer of the planet Pluto, Clyde Tombaugh, and one of the world's greatest science fiction writers, Sir Arthur C. Clarke. Through Levy's unique perspective on cosmic discovery, he is able to connect his own personal life story with that of astronomers of the past and by extension with the history of the whole universe. As the codiscoverer of the spectacular comet that crashed into Jupiter, Levy formulated a whole new range of exciting questions about the universe: Do comets serve to transport the elements of life from one planet to the next? What is the evidence that a large comet once hit the earth? Will the earth someday be in danger of colliding with another such comet and will we have the technology to stop it? This fascinating book will excite any of us who have stared at the night sky in awe and amazement. David Levy and Wendee Wallach-Levy (Vail, AZ) are continuing their ongoing search for new comets. David Levy is the president of the Jarnac Observatory, science editor for PARADE magazine, a contributing editor to Sky and Telescope and Sky News magazines, and the author of Starry Nights, The Quest for Comets, and Impact Jupiter, among other books.

DEEP SKY OBJECTS

THE BEST AND BRIGHTEST FROM FOUR DECADES OF COMET CHASING

Prometheus Books [U]nique in the world of amateur astronomy titles, pairing specifics on how and what to observe with a veteran comet chaser's exciting discoveries. -California Bookwatch...Levy gives readers an awe-inspiring glimpse into the structure of the cosmos. -Mercury...This one is born of serendipity, being a list of fuzzy celestial objects that the comet hunter must be aware of lest they be misidentified as comets...Levy personalizes the objects with an anecdote about how he first observed them over a period extending back to his early-1960s teenage days. His stories reflect the individuality of stargazing--one sky watcher gravitates to comets, another to galaxies--and allow Levy's readers to become better acquainted with their Canadian-born author. Levy loads his book with star maps and locating data--essential information for readers inspired to turn to the heavens.-BooklistLevy, of the famous comet-hunting team Shoemaker-Levy, compiles a comprehensive catalog of objects which can be observed in all light conditions and usually with low-power equipment. Targeting novice astronomers, Levy provides a brief astronomy primer-'permanent' objects, terms and definitions--before jumping into the lengthy list of deep sky sites...His excitement over these stars is palpable and infectious...Dedicated stargazers will appreciate the book's reference section, which includes the full Levy deep sky list, an inventory of objects commonly mistaken for comets, 29 star maps, a bibliography and a short glossary. A thorough resource, the book will be a much-thumbed reference for amateur skywatchers. -Publishers WeeklyVeteran comet hunter and eloquent popular astronomy writer David H. Levy

takes amateur sky-watchers on a fascinating journey into deep space in this enthusiastic and informative survey of the many far distant yet observable objects in the night sky. Light years beyond our solar system, deep sky objects include such intriguing phenomena as double and triple stars, nebulae, galaxies, and quasars. Designed to be accessible for even beginners, Levy's clear, elegant descriptions will guide astronomy buffs in any hemisphere and locale (light-polluted cities as well as dark countryside) to the wonders of our enormous universe. As the discoverer or codiscoverer of twenty-one comets, including the famous Shoemaker-Levy 9 that crashed into Jupiter in 1994, Levy has devoted many decades of experience to observing the night sky. Over the years he has located over 300 deep sky objects, of which more than 100 best and brightest are featured in this book. Levy offers a physical description and a discussion of each object's history and beauty, as well as a star atlas to aid in finding the objects. Proceeding from objects closest to our solar system to those farthest away, Levy gives readers an awe-inspiring glimpse into the structure of the cosmos. Complete with both color and black-and-white photos, plus many helpful illustrations, Deep Sky Objects is the ideal guide to the wonders of the universe for both experienced and novice star gazers. David H. Levy (Vail, AZ) is one of the world's most celebrated amateur astronomers. He is the science editor of Parade magazine and the author of many critically acclaimed popular science books, including Comets: Creators and Destroyers, The Quest for Comets, and Impact Jupiter.

DESTINATION MARS

NEW EXPLORATIONS OF THE RED PLANET

Prometheus Books In the next decade, NASA, by itself and in collaboration with the European Space Agency, is planning a minimum of four separate missions to Mars. Clearly, exciting times are ahead for Mars exploration. This is an insider's look into the amazing projects now being developed here and abroad to visit the legendary red planet. Drawing on his contacts at NASA and the Jet Propulsion Laboratory, the author provides stunning insights into the history of Mars exploration and the difficulties and dangers of traveling there. After an entertaining survey of the human fascination with Mars over the centuries, the author offers an introduction to the geography, geology, and water processes of the planet. He then briefly describes the many successful missions by NASA and others to that distant world. But failure and frustration also get their due. As the author makes clear, going to Mars is not, and never will be, easy. Later in the book, he describes in detail what each upcoming mission will involve. In the second half of the book, he offers the reader a glimpse inside the world of Earth-based "Mars analogs," places on Earth where scientists are conducting research in hostile environments that are eerily "Martian." Finally, he constructs a probable scenario of a crewed expedition to Mars, so that readers can see how earlier robotic missions and human Earth simulations will fit together. All this is punctuated by numerous firsthand interviews with some of the finest Mars explorers of our day, including Stephen Squyres (Mars Exploration Rover), Bruce Murray (former director of the Jet Propulsion Laboratory), and Peter Smith (chief of the Mars Phoenix Lander and the upcoming OSIRIS-REx missions). These stellar

individuals give us an insider's view of the difficulties and rewards of roaming the red planet. The author's infectious enthusiasm and firsthand knowledge of the international space industry combine to make a uniquely appealing and accessible book about Mars.

FROM BLUE MOONS TO BLACK HOLES

A BASIC GUIDE TO ASTRONOMY, OUTER SPACE, AND SPACE EXPLORATION

Prometheus Books Written specifically for those who have been intrigued by or have been developing a growing interest in astronomy and space but have had little time to explore the amazing world of exploding stars, distant galaxies, rovers on other planets, and more. -Astronomical Society of the Pacific A wealth of information in an enjoyable and easy to understand form. Wonderfully clear explanations . . . a perfect reference for any space buff. I read every word, cover to cover, and learned something new on just about every page (really!). -Glenn E. Cunningham, Former Project Manager of Nasa's Mars Observer and Mars Global Surveyor missions This is a fabulous treasure trove of space-related information. Delightfully written and illustrated.... This will be a helpful addition to the bookshelves of students and space buffs young and old. Many of us in the space professions whose memories or powers of simple explanation sometimes fail us will also find it a very valuable resource. -Kathy Sullivan, President and CEO, COSI (Ohio's Center of Science & Industry) and NASA Astronaut (Ret.) Our universe is a magnificent place, full of exotic entities like black holes and blue moons, white dwarfs and red giants. And it's out there for anyone who takes the time to look up! As this engrossing popular astronomy book makes clear, you don't need a degree in astrophysics to explore the vast reaches of outer space. All you need is curiosity and a little imagination. From Blue Moons to Black Holes is written specifically for those who have always been intrigued by or have been developing a growing interest in astronomy and space, but have had little time to explore the amazing world of exploding stars, distant galaxies, rovers on other planets, and more. The book consists of three sections: Questions and Answers, Quick Facts, and A Brief History of Lunar and Planetary Exploration. Knocke - who has often lectured at the prestigious Mount Wilson and Lowell Observatories - provides answers to the most frequently asked questions regarding astronomy, outer space, and space exploration in the Questions and Answers section. She gives simple and easy-to-understand answers to such provocative questions as: What is a blue moon? Could you travel through a black hole? Is the North Star the brightest star in the sky? Is Pluto really a planet? The Quick Facts section offers the reader an easy way to look up fascinating statistics about the moon and planets, bright stars, constellations, and more. This section also includes a guide to upcoming meteor showers and lunar and solar eclipses. A Brief History of Lunar and Planetary Exploration includes a chronological listing of every mission that has been launched to the moon and planets. By listing both the successes and failures, readers gain a better understanding of just how difficult it is to travel beyond our own planet. This generously illustrated volume will also include a color insert containing, among other pictures, beautiful images of Saturn from the Cassini spacecraft, currently in orbit

around the planet. Whether read from cover to cover or used as a reference tool to search for specific answers, *From Blue Moons to Black Holes* will prove to be fun, accessible, and wonderfully thought provoking. Melanie Melton Knocke (La Crescenta, CA), the former director of science education and public outreach at the Mount Wilson Observatory and Lowell Observatory, is a writer and Web editor for The Planetary Society (<http://planetary.org>) and the author of *Observing for the Fun of It*, *Will Black Holes Devour the Universe? And 100 Other Questions & Answers about Astronomy*, and *Astronomy with Binoculars*.

THE STARDUST REVOLUTION

THE NEW STORY OF OUR ORIGIN IN THE STARS

Rowman & Littlefield In 1957, as Americans obsessed over the launch of the Soviet Sputnik satellite, another less noticed space-based scientific revolution was taking off. That year, astrophysicists solved a centuries-old quest for the origins of the elements, from carbon to uranium. The answer they found wasn't on Earth, but in the stars. Their research showed that we are literally stardust. The year also marked the first conference that considered the origin of life on Earth in an astrophysical context. It was the marriage of two of the seemingly strangest bedfellows—astronomy and biology—and a turning point that award-winning science author Jacob Berkowitz calls the Stardust Revolution. In this captivating story of an exciting, deeply personal, new scientific revolution, Berkowitz weaves together the latest research results to reveal a dramatically different view of the twinkling night sky—not as an alien frontier, but as our cosmic birthplace. Reporting from the frontlines of discovery, Berkowitz uniquely captures how stardust scientists are probing the universe's physical structure, but rather its biological nature. Evolutionary theory is entering the space age. From the amazing discovery of cosmic clouds of life's chemical building blocks to the dramatic quest for an alien Earth, Berkowitz expertly chronicles the most profound scientific search of our era: to know not just if we are alone, but how we are connected. Like opening a long-hidden box of old family letters and diaries, *The Stardust Revolution* offers us a new view of where we've come from and brings to light our journey from stardust to thinking beings.

ICONS OF HORROR AND THE SUPERNATURAL

AN ENCYCLOPEDIA OF OUR WORST NIGHTMARES

Greenwood Publishing Group Offers entries on 24 of the significant archetypes of horror and the supernatural, from the classical epics of Homer to the novels of Stephen King.

THE CAMBRIDGE CONCISE HISTORY OF ASTRONOMY

Cambridge University Press Astronomy is one of the oldest sciences, and one which has repeatedly led to fundamental changes in our view of the world. This book covers the history of our study of the cosmos from prehistory through to a survey of modern astronomy and astrophysics (sure to be of interest to future historians of

twentieth-century astronomy). It does not attempt to cover everything, but deliberately concentrates on the important themes and topics. These include stellar astronomy in the seventeenth and eighteenth centuries, at the time subordinate to the study of the solar system, but the source of many important concepts in modern astronomy, and the Copernican revolution, which led to the challenge of ancient authorities in many areas, not just astronomy. This is an essential text for students of the history of science and for students of astronomy who require a historical background to their studies.

SPACE ALMANAC

FACTS, FIGURES, NAMES, DATES, PLACES, LISTS, CHARTS, TABLES, MAPS COVERING SPACE FROM EARTH TO THE EDGE OF THE UNIVERSE

A R Csoft Publishers The largest, most complete and up to date almanac of space exploration is now in its second big edition! Here at your fingertips is the latest information on almost anything you want to know about who's doing what in space.

SCIENCE

Vols. for 1911-13 contain the Proceedings of the Helminothological Society of Washington, ISSN 0018-0120, 1st-15th meeting.

LE VERRIER—MAGNIFICENT AND DETESTABLE ASTRONOMER

Springer Science & Business Media Translated from the original French by Bernard Sheehan; Edited and with an introduction by Dr. William Sheehan, a neuroscientist and amateur astronomer who is also a research fellow of the Lowell Observatory in Flagstaff, Arizona Le Verrier was a superb scientist. His discovery of Neptune in 1846 made him the most famous astronomer of his time. He produced a complete theory of the motions of the planets which served as a basis for planetary ephemeris for a full century. Doing this, he discovered an anomaly in the motion of Mercury which later became the first proof of General Relativity. He also founded European meteorology. However his arrogance and bad temper created many enemies, and he was even fired from his position of Director of the Paris Observatory.

THE ILLUSTRATED LONDON NEWS

THE ENGLISH CYCLOPAEDIA

A NEW DICTIONARY OF UNIVERSAL KNOWLEDGE ...

THE ENGLISH CYCLOPÆDIA

A NEW DICTIONARY OF UNIVERSAL KNOWLEDGE

OMEGA

THE LAST DAYS OF THE WORLD

U of Nebraska Press *Omega*, written by astronomer Camille Flammarion (1842-1925), is no less than an epic history of our future—a startling and unforgettable vision of the end of the world. Reasoned scientific speculation combined with probing philosophical inquiry lend credibility and magnitude to this tale of how humankind will physically and culturally evolve over the next several million years. The end begins in the twenty-fifth century, when a comet threatens to collide with the earth. The consequences of that frightening cosmic event are far-reaching, setting in motion a series of physical, psychic, and social changes that will profoundly affect the planet and its people far into the future. The earth's surface drastically transforms over time. Cultures radically alter, collapse, and fade away. Nations rise and fall, species become extinct, and human beings find themselves at the end of the world, alone and changed in fundamental ways. This melancholic, poetic science fiction tale of things to come is as compelling and disturbing today as when it was first written.

CUCKOO'S EGG

Doubleday Before the Internet became widely known as a global tool for terrorists, one perceptive U.S. citizen recognized its ominous potential. Armed with clear evidence of computer espionage, he began a highly personal quest to expose a hidden network of spies that threatened national security. But would the authorities back him up? Cliff Stoll's dramatic firsthand account is "a computer-age detective story, instantly fascinating [and] astonishingly gripping" (Smithsonian). Cliff Stoll was an astronomer turned systems manager at Lawrence Berkeley Lab when a 75-cent accounting error alerted him to the presence of an unauthorized user on his system. The hacker's code name was "Hunter"—a mysterious invader who managed to break into U.S. computer systems and steal sensitive military and security information. Stoll began a one-man hunt of his own: spying on the spy. It was a dangerous game of deception, broken codes, satellites, and missile bases—a one-man sting operation that finally gained the attention of the CIA . . . and ultimately trapped an international spy ring fueled by cash, cocaine, and the KGB.

TO MARS VIA THE MOON

AN ASTRONOMICAL STORY

Baen Publishing Enterprises Now with an Historical Afterword by Ron Miller Includes the original illustrations Featured in Ron Miller's *The Conquest of Space Book Series*. This 1911 novel by Mark Wicks describes a journey to the moon and Mars in the anti-gravity spaceship *Areonal*. Heavily influenced by the work of Percival Lowell, the book is an accurate mirror of the popular interest in Mars at the time it was written. Contains the original illustrations, many of which were drawn by the author. At the publisher's request, this title is sold without DRM (Digital Rights Management).

A NEW SYSTEM OF GEOGRAPHY, OR A GENERAL DESCRIPTION OF THE

WORLD

CONTAINING A PARTICULAR AND CIRCUMSTANTIAL ACCOUNT OF ALL THE COUNTRIES, KINGDOMS AND STATES OF EUROPE, ASIA, AFRICA AND AMERICA, THEIR SITUATION ... WITH THE BIRDS, BEASTS, ..., FOUND IN DIFFERENT REGIONS, EMBELLISHED WITH A NEW AND ACCURATE SET OF MAPS, BY THE BEST GEOGRAPHERS, AND GREAT VARIETY OF COPPER-PLATES, CONTAINING PERSPECTIVE VIEWS OF THE PRINCIPAL CITIES, STRUCTURES, RUINS, ETC

HARD TIMES FOR THESE TIMES

THE VARIETIES OF SCIENTIFIC EXPERIENCE

A PERSONAL VIEW OF THE SEARCH FOR GOD

Penguin “Ann Druyan has unearthed a treasure. It is a treasure of reason, compassion, and scientific awe. It should be the next book you read.” —Sam Harris, author of *The End of Faith* “A stunningly valuable legacy left to all of us by a great human being. I miss him so.” —Kurt Vonnegut Carl Sagan's prophetic vision of the tragic resurgence of fundamentalism and the hope-filled potential of the next great development in human spirituality The late great astronomer and astrophysicist describes his personal search to understand the nature of the sacred in the vastness of the cosmos. Exhibiting a breadth of intellect nothing short of astounding, Sagan presents his views on a wide range of topics, including the likelihood of intelligent life on other planets, creationism and so-called intelligent design, and a new concept of science as “informed worship.” Originally presented at the centennial celebration of the famous Gifford Lectures in Scotland in 1985 but never published, this book offers a unique encounter with one of the most remarkable minds of the twentieth century.

GOOD MORNING, MIDNIGHT

A NOVEL

Random House Trade Paperbacks “A remarkable and gifted debut novel” (Colson Whitehead) about two outsiders—a lonely scientist in the Arctic and an astronaut trying to return to Earth—as they grapple with love, regret, and survival in a world transformed. THE INSPIRATION FOR THE NETFLIX ORIGINAL FILM THE MIDNIGHT SKY, DIRECTED BY AND STARRING GEORGE CLOONEY Augustine, a brilliant, aging astronomer, is consumed by the stars. For years he has lived in remote outposts, studying the sky for evidence of how the universe began. At his latest posting, in a research center in the Arctic, news of a catastrophic event arrives. The scientists are forced to evacuate, but Augustine stubbornly refuses to abandon his work. Shortly after the others have gone, Augustine discovers a mysterious child, Iris, and realizes that the airwaves have gone silent. They are alone. At the same time, Mission Specialist Sullivan is aboard the Aether on its return flight from Jupiter. The astronauts are the first human beings to delve this deep into space, and Sully has

made peace with the sacrifices required of her: a daughter left behind, a marriage ended. So far the journey has been a success. But when Mission Control falls inexplicably silent, Sully and her crewmates are forced to wonder if they will ever get home. As Augustine and Sully each face an uncertain future against forbidding yet beautiful landscapes, their stories gradually intertwine in a profound and unexpected conclusion. In crystalline prose, *Good Morning, Midnight* poses the most important questions: What endures at the end of the world? How do we make sense of our lives? Lily Brooks-Dalton's captivating debut is a meditation on the power of love and the bravery of the human heart. NAMED ONE OF THE BEST BOOKS OF THE YEAR BY SHELF AWARENESS AND THE CHICAGO REVIEW OF BOOKS "Stunningly gorgeous . . . The book contemplates the biggest questions—What is left at the end of the world? What is the impact of a life's work?"—Portland Mercury "A beautifully written, sparse post-apocalyptic novel that explores memory, loss and identity . . . Fans of Emily St. John Mandel's *Station Eleven* and Kim Stanley Robinson's *Aurora* will appreciate the Brooks-Dalton's exquisite exploration of relationships in extreme environments."—The Washington Post

MICROBE HUNTERS

First published in 1927.

HARPER'S WEEKLY
