

The Hunt For Planet X New Worlds And The Fate Of Pluto Reprint

[#Planet X](#) [#Pluto](#) [#New Worlds](#) [#Astronomy](#) [#Space Exploration](#)

Explore the captivating quest for Planet X, delving into the discovery of new worlds and examining the controversial reclassification of Pluto. This reprint offers a fresh perspective on our solar system's mysteries, highlighting ongoing research and the evolution of our understanding of celestial bodies. From early theories to modern observations, this book provides an engaging and informative journey through the ever-evolving field of planetary science.

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The Hunt for Planet X

Ever since the serendipitous discovery of planet Uranus in 1871, astronomers have been hunting for new worlds in the outer regions of our solar system. This exciting and ongoing quest culminated recently in the discovery of hundreds of ice dwarfs in the Kuiper belt, robbed Pluto from its 'planet' status, and led to a better understanding of the origin of the solar system. This timely book reads like a scientific 'who done it', going from the heights of discovery to the depths of disappointment in the hunt for 'Planet X'. Based on many personal interviews with astronomers, the well-known science writer Govert Schilling introduces the heroes in the race to be the first in finding another world, bigger than Pluto.

Pluto Confidential

When the International Astronomical Union (IAU) adopted a new definition of a "planet" in August 2006, Pluto became a dwarf planet, drawing a divisive line in science and public opinions. The controversy of whether Pluto is a planet continues years later, and passion about the decision remains, pitting scientist against scientist and invoking sentiments and nostalgia from the rest of the world. With the IAU definition, the future of space objects is forever changed. Learn how this resolution came to be and what it means for astronomy, who implemented it and who is against it, and whether it's the first or millionth time the world's view of astronomy has rotated on its axis. Written by an astronomer and educator who voted for the IAU resolution—Laurence A. Marschall—and a NASA scientist who supported the opposing petition that resulted—Stephen P. Maran—Pluto Confidential leaves no perspective out and no asteroid unturned in the Pluto debate. A telescopic look inside the book: • History of planetary disputes, including why Jupiter almost wasn't acknowledged • What Bode's Law is and how it has influenced observations • Who discovered Pluto and how it was named • The Kuiper Belt and its role in what it means to be a planet • Beyond Pluto and the eight distinguished planets

The Case for Pluto

In support of Pluto-the cutest and most unfairly treated planet Pity poor Pluto: It's a planet that was discovered because of a mistake, a planet that turned out not to be a planet at all, thanks to a still-disputed decision made in 2006. And yet, Pluto is the planet best-loved by Americans, especially children, one that may have contained the building blocks of life billions of years ago and may well serve as life's last redoubt billions of years from now. In *The Case for Pluto*, award-winning science writer Alan Boyle traces the tiny planet's ups and downs, its strange appeal, the reasons behind its demotion, and the reasons why it should be set back in the planetary pantheon. Tells the compelling story of Pluto's discovery and how it became a cultural icon Makes the case for Pluto as planet, countering the books that argue against it Comes in a small, friendly package — just like Pluto — and features a handsome design, making it a great gift *The Case for Pluto* is the must-read tale of a cosmic underdog that has captured the hearts of millions: an endearing little planet that is changing the way we see the universe beyond our backyard. Alan Boyle is MSNBC.com's science editor and the award-winning blogger behind *Cosmic Log*. He's been a talking head on NBC's *The Today Show* and the MSNBC cable channel, holding forth on scientific subjects ranging from the chances of an asteroid Armageddon to the 3-D wizardry behind the "Harry Potter" movies. But he writes better than he talks.

Discovery and Classification in Astronomy

This book shows that astronomical discovery is a complex and ongoing process comprising various stages of research, interpretation and understanding.

Discovering Pluto

The story of Pluto and its largest moon, from discovery through the New Horizons flyby--Provided by publisher.

Pluto

Explores the planet Pluto, including its atmosphere and composition, its early astronomical sightings, and its terrain.

Asteroids and Dwarf Planets and How to Observe Them

Dwarf planets (which were formerly called asteroids except for the planet Pluto), and the smaller Solar System bodies still called asteroids today, are making front page news, particularly those that are newly discovered and those that might present a hazard to life on Earth by impacting our planet. In this age of giant telescopes and space probes, these small Solar System bodies have advanced from being tiny points of light to bodies worthy of widespread study. This book describes the dwarf planets and asteroids themselves, their origins, orbits, and composition, and at how amateur astronomers can play a part in their detection, tracking, and imaging. The book is divided into two parts. Part I describes physical properties (including taxonomic types) of dwarf planets and asteroids, how they formed in the early life of the Solar System, and how they evolved to their present positions, groups, and families. It also covers the properties used to define these small Solar System bodies: magnitude, rotation rates (described by their light-curves), and orbital characteristics. Part II opens with a description of the hardware and software an amateur or practical astronomer needs to observe and also to image asteroids. Then numerous observing techniques are covered in depth. Finally, there are lists of relevant amateur and professional organizations and how to submit your own observations to them.

The Tungus Event, Or, The Great Siberian Meteorite

Twelve-year-old Clyde Tombaugh stepped up and took his first look through a telescope. Gazing at the moon, he was thrilled by the sight of its craters and valleys. What other mysteries were out there in space? Clyde wondered. Learn the fascinating true story of the hardworking young man who discovered Pluto through richly colored illustrations that capture Clyde's determination and bring his story to life.

Clyde Tombaugh and the Search for Planet X

For many years, it was accepted as fact that our solar system had nine planets. However, one important meeting of astronomers in 2006 reduced that number to eight. They decided that Pluto was not a planet, a declaration that outraged some people. Readers will learn more about distant Pluto, such as how it was accidentally discovered. Brilliant photographs accompany the fascinating facts.

Why Isn't Pluto a Planet?

Describes the discovery of Pluto, the ninth planet, what has been learned about it, and the current controversy over whether it is a planet at all.

Pluto

Planet X was the subject of free and open debate among astronomers and scientists decades ago. Harrington searched for the same object that famous astronomers such as Percival Lowell also searched for. He published a paper on where he believed he would find Planet X and traveled to New Zealand with his own telescope to observe his discovery. After his trip, Harrington was silenced by a bizarre onset of esophageal cancer and died before he could publish his findings. Following his death, an anonymous obituary stated that he had been disappointed with his research. However, Harrington's widow rejected this notion; she believed her husband was murdered to silence him before he could alert the world to proof of Planet X's existence. This object - what we call Planet X - exists, and it is inbound. How do we know? Both current data and the ancients tell us so. If you've noticed the alarming and ever increasing pace of catastrophic Earth changes, doesn't it make sense to become informed about the root cause? Why has the US installed a huge telescope in Antarctica (the only real viewpoint for Planet X)? As a Southern Hemisphere observation post, Chile would have been much easier. The South Pole Telescope cost billions and took years to put into operation. The Hubble has been used to monitor this situation with PX very closely and through an observatory in Kilauea Hawaii as well. Planet X is why we have the Seed Vault in Greenland. Planet X is why governments have spent trillions in deep underground bases. This is a book that will take the reader deep into the mystery and the truth.

Planet X - God's Endgame

In January of 2016, Mike Brown, the discoverer of Sedna and other dwarf planets beyond Neptune and Pluto, made the stunning announcement that at least one full size planet (dubbed "Planet 9") is still waiting to be detected in our outer solar system. Astronomers and Astrophysicists have embarked upon an intensive five-year program to scour the heavens in search of this missing corner piece to the solar system puzzle. In honor of that non-trivial pursuit, "A Twisted History: Genesis and the Cosmos" has been freshly edited and greatly expanded. It is not only a trusty bird dog to the epic scavenger hunt that is "Mission Planet 9," but your companion in exploring the mysteries of the larger Milky Way Galaxy as well. The central figure of the Book of Genesis is not a mighty hunter (of men or beasts), but a mild-mannered cultivator of human relations and the celestial arts. It is not Nimrod, but Abraham who is reckoned as deserving of twelve entire chapters (Genesis 12 -23) and portions of two others (Genesis 24-25). He is curiously commanded to look toward the heavens and hunt for stars. In extra-Biblical tradition, Abraham is more specifically identified as the leading astronomer of his Age. With this in mind, an interpretation of the Torah from the perspective of Cosmology takes on renewed focus and significance, and especially in light of recent events. In the Book of Genesis, stargazer Abraham has a Nemesis named Abimelech. Adam is cursed with the company of an older, wiser and higher Serpent. Even more tellingly, Jacob (likened by his son Joseph to the Sun) wrestles with his slightly older, reddish and surly twin (Dwarf Sun) brother Esau. Twins are quite prominent and considered special in the Bible and Myth. Astrophysicists have also recently determined that multiple star systems predominate in our galactic neighborhood, and a number of young, developing star systems of this type are now being studied in detail. What we have not suspected is that our own solar system begun as a binary. In retrospect, it perhaps should have been intuitively obvious. There is two of everything! There are two gas giants, Jupiter and Saturn. There are two nearly identical other gas planets with extensive damage, Neptune and Uranus. There are two nearly identical rocky planets, Earth and Venus. There are two heavily damaged rocky planets, Mercury and Mars. There may even be the remains of two proto-planetary disks, those being the Oort Cloud and Kuiper Belt. How many more clues do we really need? Mike Brown and his colleagues are looking for a planet (and maybe two), but may end up rediscovering our solar system's missing stunted twin instead.

A Twisted History: Genesis and the Cosmos

An exciting introduction to astronomy, using recent discoveries and stunning photography to inspire non-science majors about the Universe and science.

The Cosmos

With its age-appropriate text, helpful charts, colorful design, and vivid illustrations and photography, this series is perfect for students working on reports and projects or for the budding astronomer fascinated by what exists beyond our planet.

The Dwarf Planet Pluto

Learn about the planet Pluto, the ninth planet from the sun. Using this book as your guide, you will learn to identify the characteristics and composition of Pluto that makes it unique. You will also get an idea on what it would be like if you were actually on this rock-and-ice planet. Read to learn beginning today. Secure a copy now.

Out of the Darkness, the Planet Pluto

Describes Pluto, which was officially designated a dwarf planet in 2006.

Pluto

Describes the dwarf planet's characteristics, discussing its position, size, composition, and exploration.

Pluto

Special Features: Sidebars; Glossary; Books, Magazines, Organizations, and Web sources; Index
Curriculum Strands: Space science

Pluto

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

Mercury and Pluto

Examines the outer planets, and discusses their moons, interiors, atmospheres, locations, and exploration.

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

The distinction between planets and dwarf planets is explored in this fascinating volume. It discusses the most recent scientific discoveries along with the mysteries and questions they raise. Amazing illustrations make this book beautiful as well as informative.

Destination Uranus, Neptune, and Pluto

This book serves as a fascinating progress report on the outer solar system, offering a way to better appreciate the newest findings. It unlocks some of the mysteries surrounding Uranus, Neptune, and Pluto — from the drama of their discoveries to the startling results of Voyager 2's historic 1989 encounter with Neptune.

Pluto and Other Dwarf Planets

The exploration of the ninth planet, Pluto, its moon, Charon, and their relationship to the newly discovered Kuiper Belt, is a tale of perseverance, ingenuity and dedication on the part of the planetary scientists who have been lured by the fascination of these far-flung miniature worlds. In *Pluto and Charon*, Alan Stern and Jacqueline Mitton turn that story into an entertaining adventure, starting with the discovery of Pluto by Clyde Tombaugh in 1930. In a highly accessible narrative, they bring to life

the many 'Plutophiles', who with skill and resourcefulness have pieced together over several decades an amazingly detailed picture of the nature of Pluto and Charon. The book also documents vividly the struggle by Plutophiles and the public to persuade NASA to fund a mission to Pluto, the only planet not yet explored from close proximity by a spacecraft. Hopes were alternately raised and dashed before eventual victory. At last, New Horizons (led by author Stern as Principal Investigator) is due to be launched in early 2006 on a 9-year journey to Pluto, Charon and beyond. For this second edition, Stern and Mitton have brought their 1998 book fully up to date, including the latest discoveries about Pluto's ancient relationship with the members of the Kuiper Belt of icy bodies and dwarf planets beyond Neptune. They have also added a completely new chapter on the New Horizons mission.

Planets Beyond

Pluto, once considered the ninth planet in our solar system, is now classified as one of the largest dwarf planets in the Kuiper Belt. But what is a dwarf planet? And what is the Kuiper Belt? This engaging book answers these questions while exploring the unique features of Pluto, its moon Charon, and other major dwarf planets like Eris and Ceres.

Pluto and Charon

In 2015, 85 years after Pluto was discovered, it was finally reached by the New Horizons space probe, and what the probe found there transformed our understanding of that distant world. This up-to-date, detailed and colourful book tells the story of Pluto, from the early fruitless searches for the mysterious Planet X, through Clyde Tombaugh's triumphant discovery of the planet and the subsequent decades of research, culminating in the New Horizons mission. Including exclusive information from many world experts on Pluto and New Horizons, it covers every aspect of the story, in fact, fiction and art - and it looks to the future of both Pluto and probe. About the author Dr Mike Goldsmith studied variable stars and cosmic dust at Keele University, receiving his Ph D in 1987. Since then he has written more than fifty books and scientific papers on a variety of subjects, including astronomy and astrophysics. After working in the field of acoustics for many years, as head of the Acoustics Group of the UK's National Physical Laboratory, he is now a freelance researcher and science writer. He lives in Twickenham.

Journey to Pluto and Other Dwarf Planets

"A brief description of planets, including what they are, where they are, and how they orbit around the sun"--Provided by publisher.

New Horizons to Pluto

Discusses the surface features, atmosphere, orbit, moon, discovery, and exploration of the planet Pluto.

Why Isn't Pluto a Planet?

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

is a riveting account of scientific discovery, and of how much we humans can achieve when people focused on a dream work together toward their incredible goal.

Pluto

In 2006, Pluto was reclassified as a dwarf planet. Small, rocky dwarf planets make their home on the outer edges of the solar system. Scientists use telescopes to study Pluto and the dwarf planets as they orbit the Sun. Their fascinating findings are on display in this informative title about some of the solar system's most far-away objects!

The British National Bibliography

A history of the discovery of the planet Pluto.

Chasing New Horizons

Pluto joined the Planet Club in 1930, but didn't quite fit in. He is much tinier than the gas giants in the outer part of the Solar System. He has a lot more moons than any of the inner planets. His orbit is much more stretched out than any of the other worlds' paths around the Sun. The other members of the Planet Club didn't know what to make of him. Then one day, Pluto received some bad news... Explore the story of Pluto as seen through the eyes of the planets themselves. Witness the rise and fall of Pluto's membership in the Planet Club. Why was he demoted and what happened next? Introduce young minds to the fascinating science of astronomy with this entertaining picture book about the Solar System. Great for ages four to ten! Masterful illustrations by Vance Lehmkuhl make this book a true gem. Astronomy for children has never been more fun! Praise for What's the Matter with Pluto? -"Delightful! What a wonderful way to get young ones interested in the mysteries constantly unfolding in the sky above us. Smart, fun, and educational - all at the same time. ." -Christine Lavin, Singer-songwriter: "Shining My Flashlight on the Moon," "Planet X," "Just One Angel 2.0" "In 'What's the Matter with Pluto,' Paul Halpern and Vance Lehmkuhl lay out the facts of planetary life with humor, clarity, and a surprising amount of depth. No other issue in astronomy has engendered such passionate feelings and outright confusion from children and adults alike as the "demotion" of Pluto from planetary status, and the abandonment of traditional mnemonics as the solar system went from nine planets to eight. Halpern and Lehmkuhl describe the history of Pluto's discovery, what makes it so different from the others, and ultimately its expulsion from 'The Planet Club,' with a light tone, but enough rigor that even the most ardent Plutonian defender would be hard-pressed to argue." -Dave Goldberg, Astrophysicist and Science Writer: "The Universe in the Rearview Mirror," "A User's Guide to the Universe" 10% of the royalties received for this book will be donated to the hunger charity Philabundance.

Pluto & the Dwarf Planets

Pluto is now a dwarf planet. Learn more about the fascinating, cold world of Pluto.

Planets X and Pluto

Discusses the orbit, atmosphere, surface features, and exploration of the planet Pluto.

What's the Matter with Pluto?

Let's Explore Pluto and Beyond investigates the latest discoveries about Pluto, explains its change in classification from planet to dwarf planet, and describes the other space objects found beyond Pluto's orbit.

Pluto [Scholastic]

Pluto