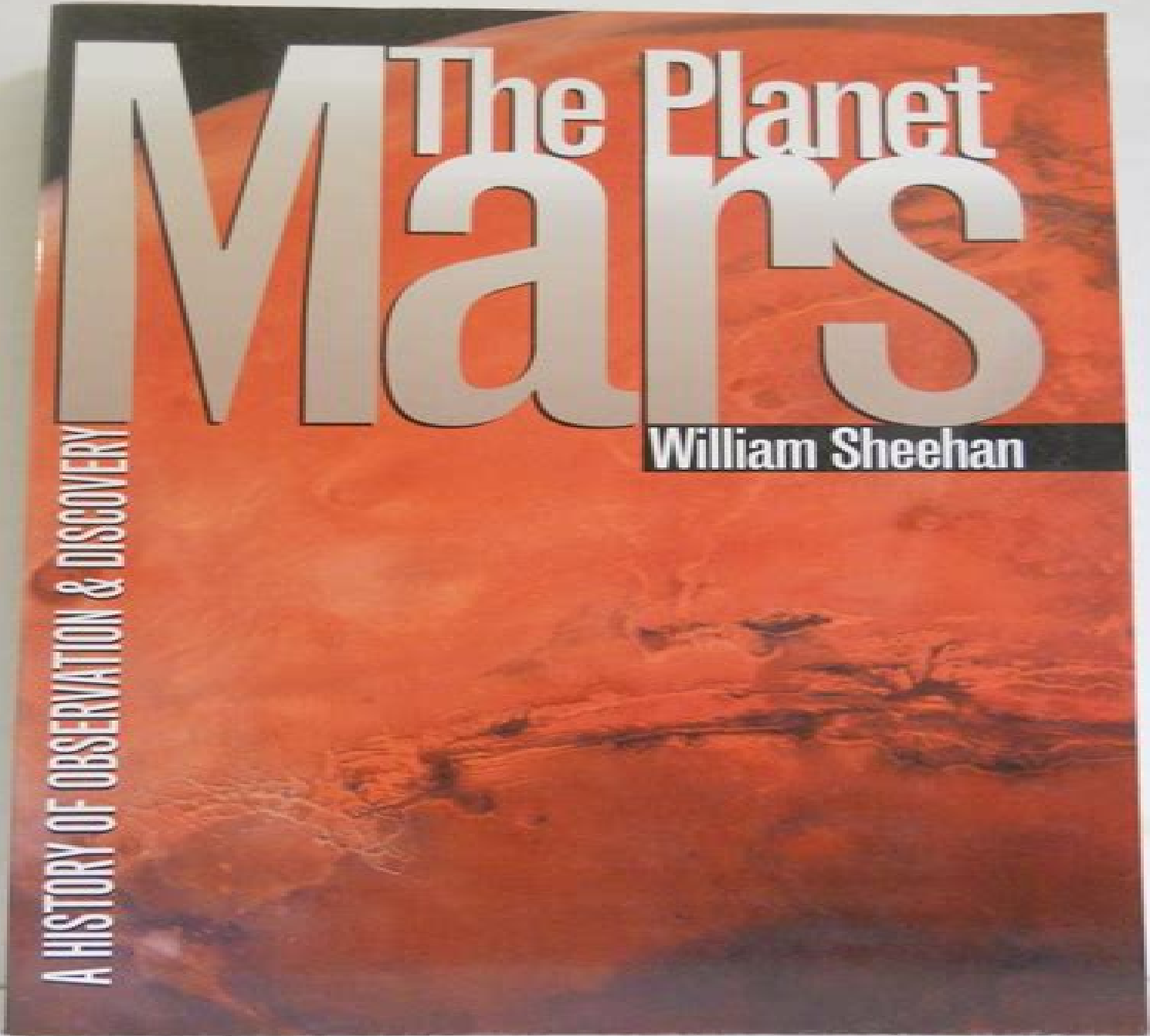




The Planet Mars

William Sheehan

A HISTORY OF OBSERVATION & DISCOVERY

Planet Mars A History Of Observation And Discovery

Fred W. Price



Planet Mars A History Of Observation And Discovery:

The Planet Mars William Sheehan, 1996-09 Recounts the history of observations of Mars and the rise and fall of belief in the existence of life on the planet reports on the discoveries of the first spacecraft to study it and provides advice for viewing Mars from the earth

The Planet Mars William Sheehan, Jim Bell, 1996-09-01 Twenty years after the Viking missions of the 70s we are finally going back to Mars No fewer than ten missions are planned for the period between 1996 and 2003 and it is likely that human explorers will follow soon after perhaps by the middle of the twenty first century When they do they will owe much to the Mars of romance to the early pioneers whose discoveries and disappointments are brought to life in *The Planet Mars A History of Observation and Discovery* In this timely and vividly written account William Sheehan traces human fascination with Mars back to the naked eye observers of the planet He recalls the early telescopic observers who first made out enigmatic markings and polar caps on its surface Through lively historical anecdotes he describes in detail the debate over the so called canals of Mars which encouraged speculation that the planet might be inhabited Finally Sheehan describes more recent theories about the planet leading up to the present when unmanned spacecraft have enabled us to make giant strides in exploration Well documented and sparked with human interest this book will be a useful companion and guide in interpreting the barrage of headlines about Mars that is sure to come over the next few years Amateurs will appreciate the contributions that have been made to Martian studies by people like themselves and professionals will find much original material that has never before been published The American Mars Global Surveyor is scheduled for launch in November 1996 and soon after the American Mars Pathfinder will make its way toward the red planet A Russian mission consisting of an orbiter and two landers will be launched in October 1997 These space travelers will write a whole new chapter in the dramatic story of Mars a planet whose exploration has only just begun Astronomy Book Club main selection and selections of Book of the Month Club and Quality Paperback Book Club

The Planet Mars William Sheehan, 2003-11-01 This volume provides a history of Martian exploration from the earliest stirrings of human curiosity about the planet right up to the 1990s when after a lull of 20 years and after suffering through the disappointments of the Russian Phobos and American Mars Observer missions we stood again poised on the verge of a more vigorous phase of exploration of the planet Highly recommended by Astronomy and Sky and Telescope journals B W illustrations A history of fascination Fills a long standing gap in the Mars literature Very knowing and elegant

Discovering Mars William Sheehan, Jim Bell, 2021-11-09 A leading historian of astronomy and a leading planetary scientist who works at the forefront of space exploration provide a comprehensive history of the solar system s most alluring planet beyond Earth William Sheehan and Jim Bell chronicle how ancient watchers of the skies attended to Mars s red color and baffling movements how three and a half centuries of telescopic observations added vistas and controversies around possible seas and continents and canals and how the current era of exploration by flyby orbiter lander and rover spacecraft have conjured for us the reality of a world of towering shield

volcanoes vast canyons ancient dry riverbeds and even possible evidence of past life A unique collaboration between two authors on the forefront of Mars explorations past and future *Discovering Mars* provides an ambitious detailed and evocative account of humanity's enduring fascination with the Red Planet *The Solar System* William Sheehan, Clifford J. Cunningham, 2025-07-13 An inviting expedition across our galactic neighborhood from Mercury to the Sun's furthest satellites complete with the latest discoveries *The Space Age* probes to the Moon Venus and Mars ushered in a golden age of planetary science transforming our understanding of the solar system from a distant mystery into many vividly realized worlds This book provides an accessible survey of the solar system covering each of the planets as well as the major asteroids and bodies just outside the solar system Drawing on interviews with leading scientists the book offers an engaging overview of the latest discoveries for amateur astronomers making it an essential guide for anyone interested in our celestial neighborhood *Exploring the Martian Moons* Manfred "Dutch" von Ehrenfried, 2017-04-11 This book explores the once popular idea of Flexible Path in terms of Mars a strategy that would focus on a manned orbital mission to Mars's moons rather than the more risky expensive and time consuming trip to land humans on the Martian surface While currently still not the most popular idea this mission would take advantage of the operational scientific and engineering lessons to be learned from going to Mars's moons first Unlike a trip to the planet's surface an orbital mission avoids the dangers of the deep gravity well of Mars and a very long stay on the surface This is analogous to Apollo 8 and 10 which preceded the landing on the Moon of Apollo 11 Furthermore a Mars orbital mission could be achieved at least five years possibly 10 before a landing mission Nor would an orbital mission require all of the extra vehicles equipment and supplies needed for a landing and a stay on the planet for over a year The cost difference between the two types of missions is in the order of tens of billions of dollars An orbital mission to Deimos and Phobos would provide an early opportunity to acquire scientific knowledge of the moons and Mars as well since some of the regolith is presumed to be soil ejected from Mars It may also offer the opportunity to deploy scientific instruments on the moons which would aid subsequent missions It would provide early operational experience in the Mars environment without the risk of a landing The author convincingly argues this experience would enhance the probability of a safe and successful Mars landing by NASA at a later date and lays out the best way to approach an orbital mission in great detail Combining path breaking science with achievable goals on a fast timetable this approach is the best of both worlds and our best path to reaching Mars safely in the future **The Space Age Generation** William Sheehan, Klaus R. Brasch, 2024-03-05 In 1957 Sputnik launched toward the stars President Kennedy then announced that the United States would send men to the Moon and then return them to Earth These pivotal moments sparked an unequalled bound forward in human innovation and scientific exploration At the heart of this momentous time were the men and women working behind the scenes Scientists historians and astronomers share their memories and contributions from this unparalleled era in essays told in their own words They are the remarkable generation who witnessed and contributed to

some of space science's most stunning achievements. Here they have recorded their memories, their childhood inspirations, their challenges, failures, and triumphs for future generations. A unique and authoritative record of a momentous period in human history. The Space Age Generation highlights the golden age of space exploration and the people who made it happen. Contributors: Leo Aerts, Alexander Basilevsky, Klaus Brasch, Clark R. Chapman, Dale P. Cruikshank, William K. Hartmann, William Leatherbarrow, Baerbel Koesters, Lucchitta Yvonne Pendleton, Peter H. Schultz, William Sheehan, Paolo Tanga, Charles A. Wood.

Dreams of Other Worlds Chris Impey, Holly Henry, 2016-04-19. The story of unmanned space exploration from Viking to today. *Dreams of Other Worlds* describes the unmanned space missions that have opened new windows on distant worlds. Spanning four decades of dramatic advances in astronomy and planetary science, this book tells the story of eleven iconic exploratory missions and how they have fundamentally transformed our scientific and cultural perspectives on the universe and our place in it. The journey begins with the Viking and Mars Exploration Rover missions to Mars, which paint a startling picture of a planet at the cusp of habitability. It then moves into the realm of the gas giants with the Voyager probes and Cassini's ongoing exploration of the moons of Saturn. The Stardust probe's dramatic round trip encounter with a comet is brought vividly to life, as are the SOHO and Hipparcos missions to study the Sun and Milky Way. This stunningly illustrated book also explores how our view of the universe has been brought into sharp focus by NASA's great observatories, Spitzer, Chandra, and Hubble, and how the WMAP mission has provided rare glimpses of the dawn of creation. *Dreams of Other Worlds* reveals how these unmanned exploratory missions have redefined what it means to be the temporary tenants of a small planet in a vast cosmos.

Civilized Life in the Universe George Basalla, 2006-01-19. From Plutarch and Kepler to Stephen Hawking and Carl Sagan, this book offers a fascinating history of scientific speculation about life in outer space. Basalla traces an unbroken but twisting chain of ideas passed from one scientist to the next and from science to popular culture. He even examines the influence of popular culture on science. Sagan always admitted how much Burroughs' Martian novels influenced his speculations about Mars. Throughout, Basalla shows that scientific belief in and search for extraterrestrial civilizations is a complex impulse, part secularized religious and part anthropomorphic.

Ripples on the Cosmic Ocean Dagomar Degroot, 2025-10-28. Changes in cosmic environments from solar storms to asteroid impacts have altered the course of history. Tracing how such events shaped geopolitics and spurred scientific and cultural innovation, Dagomar Degroot asks what comes next as the solar system becomes increasingly vulnerable to human activity.

The Earth in Context David M. Harland, 2001-10-18. Distinguished space historian Harland tells an inspiring tale of scientific discovery with two interwoven strands tracing the Earth's geological history and the Earth in relation to the solar system. 100 illustrations.

Planetary Geology Angelo Pio Rossi, Stephan van Gasselt, 2017-11-28. This book provides an up-to-date interdisciplinary geoscience focused overview of solid solar system bodies and their evolution based on the comparative description of processes acting on them. Planetary research today is a strongly multidisciplinary endeavor with efforts coming from engineering and natural

sciences Key focal areas of study are the solid surfaces found in our Solar System Some have a direct interaction with the interplanetary medium and others have dynamic atmospheres In any of those cases the geological records of those surfaces and sub surfaces are key to understanding the Solar System as a whole its evolution and the planetary perspective of our own planet This book has a modular structure and is divided into 4 sections comprising 15 chapters in total Each section builds upon the previous one but is also self standing The sections are Methods and tools Processes and Sources Integration and Geological Syntheses Frontiers The latter covers the far reaching broad topics of exobiology early life extreme environments and planetary resources all areas where major advancements are expected in the forthcoming decades and both key to human exploration of the Solar System The target readership includes advanced undergraduate students in geoscience related topics with no specific planetary science knowledge undergraduates in other natural science domains e g physics astronomy biology or chemistry graduates in engineering and space systems design who want to complement their knowledge in planetary science The authors backgrounds span a broad range of topics and disciplines rooted in Earth geoscience their expertise covers remote sensing and cartography field mapping impact cratering volcanology and tectonics sedimentology and stratigraphy exobiology and life in extreme environments planetary resources and mining Several generations of planetary scientists are cooperating to provide a modern view on a discipline developed from Earth during and through Space exploration

The Martians David Baron, 2025-08-26 Long before NASA began contemplating a visit to our neighboring world a turn of the century Mars craze invaded the public s imagination here thrillingly retold in David Baron s *The Martians* There Is Life on the Planet Mars New York Times December 9 1906 This New York Times headline was no joke In the early 1900s many Americans actually believed we had discovered intelligent life on Mars as best selling science writer David Baron chronicles in *The Martians* his truly bizarre tale of a nation swept up in Mars mania At the center of Baron s historical drama is Percival Lowell the Boston Brahmin and Harvard scion who observed canals etched into the surface of Mars Lowell devised a grand theory that the red planet was home to a utopian society that had built gargantuan ditches to funnel precious meltwater from the polar icecaps to desert farms and oasis cities The public fell in love with the ambitious amateur astronomer who shared his findings in speeches and wildly popular books While at first people treated the Martians whimsically Martians headlining Broadway shows biologists speculating whether they were winged or gilled the discussion quickly became serious Inventor Nikola Tesla announced he had received radio signals from Mars Alexander Graham Bell agreed there was no escape from the conviction that intelligent beings inhabited the planet Martian excitement reached its zenith when Lowell financed an expedition to photograph Mars from Chile s Atacama Desert resulting in what newspapers hailed as proof of the Martian canals existence Triumph quickly yielded to tragedy Those wild claims and highly speculative photographs emboldened Lowell s critics whose withering attacks gathered steam and eventually wrecked the man and his theory but not the fervor he had started Although Lowell would die discredited and delusional in 1916 the Mars frenzy

spurred a nascent literary genre called science fiction and the world's sense of its place in the universe would never be the same. Today the red planet maintains its grip on the public's imagination. Many see Mars as civilization's destiny, the first step toward our becoming an interplanetary species, but as David Baron demonstrates, this tendency to project our hopes onto the world next door is hardly new. *The Martians* is a scintillating and necessary reminder that while we look to Mars for answers, what we often find are mirrors of ourselves. *Encyclopedia of Astronomy & Astrophysics* P. Murdin, 2001-01-01. In a unique collaboration, Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics. This unique resource covers the entire field of astronomy and astrophysics, and this online version includes the full text of over 2,750 articles, plus sophisticated search and retrieval functionality and links to the primary literature. The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists. This first-class resource is an essential source of information for undergraduates, graduate students, researchers, and seasoned professionals, as well as for committed amateurs, librarians, and lay people wishing to consult the definitive astronomy and astrophysics reference work.

Life on Other Worlds Steven J. Dick, 2001-03-19. The recent discoveries of extrasolar planets and possible microfossils in Martian meteorite ALH 84001 are only the latest developments in a debate that spans millennia and that has been especially heated in the twentieth century. From the furore over Percival Lowell's claim of canals on Mars at the beginning of the century to the biological experiments of the Viking spacecraft, the controversial Mars rock, and the sophisticated Search for Extraterrestrial Intelligence (SETI), at its end, otherworldly life has often titillated and occasionally consumed science and the public. So too have crucially related areas such as the search for planetary systems, the quest for an explanation of UFOs, and inquiries into the origin of life. The theme has been elaborated in science fiction, from H. G. Wells to Arthur C. Clarke, and resulted in some of the most popular films of all time, including *ET*, *Aliens*, *Independence Day*, and *Contact*. *Life on Other Worlds* details, in a readable and non-technical manner, the history of the twentieth-century extraterrestrial life debate, one of the pervasive themes of our century.

The Cambridge Guide to the Solar System Kenneth R. Lang, 2003-09-25. The Cambridge Guide to the Solar System provides a comprehensive and up-to-date description of the planets and their moons. Writing at an introductory level appropriate for high school and undergraduate students, Professor Lang leads the reader on a fascinating journey of exploration to the worlds beyond our home planet Earth. The book begins with a short introduction to the history of planetary observation and discovery. The major planets and their moons are then introduced by presenting common properties, processes, and themes. This is followed by chapters which focus on individual planets and other solar system objects, including a comprehensive treatment of the various space missions, from the Apollo missions to the Moon to recent missions to Jupiter and Mars. Filled with vital facts and information and lavishly illustrated in colour throughout, this book will also appeal to professionals as well as general readers with an interest in planetary science. *The Journal of Arizona*

History, 2017 *The Planet Observer's Handbook* Fred W. Price, 2000-10-26 This is an informative up to date and well illustrated guide to planetary observations for amateurs After a brief description of the solar system and a chapter on the celestial sphere readers are shown how to choose test and use a telescope with various accessories and how to make observations and record results For each planet and the asteroids details are given of observational techniques together with suggestions for how to make contributions of scientific value From a general description and detailed observational history of each planet observers can anticipate what they should see and assess their own observations The chapter on planetary photography includes the revolutionary use of videography charge coupled devices and video assisted drawing There are also chapters on making maps and planispheres and on photoelectric photometry **Air & Space Smithsonian**, 1998

Milestones of Space Michael J. Neufeld, 2014-05-15 A history of exploration through eleven objects from the Air and Space Museum Takes you behind the scenes with firsthand stories and rare photos William F Readdy former NASA astronaut and Space Shuttle commander Throughout human history across cultures and landscapes countless individuals have gazed with wonder in the same direction upward Getting to space was no easy task and our quest to further explore the universe to understand the impossibly vast heavens continues In *Milestones of Space* Michael Neufeld and select curators of the Smithsonian National Air and Space Museum present a gorgeous photographic celebration of some of the most groundbreaking artifacts that played key parts in giving humanity its first steps into the cosmos Focusing on the most iconic objects and technology such as Friendship 7 the Lunar Module 2 Neil Armstrong's Lunar Suit the Hubble Space Telescope and Space Shuttle Discovery this book extensively profiles eleven of the NASM's most important breakthroughs in space technology The NASM curators feature each object in incredible detail with compelling timelines sidebars and captions and over 150 archival images that provide new and little known insights into their development and historical context We are still a long way from grasping our universe but for now *Milestones of Space* magnificently commemorates the individuals and inventions that have taken us this far

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