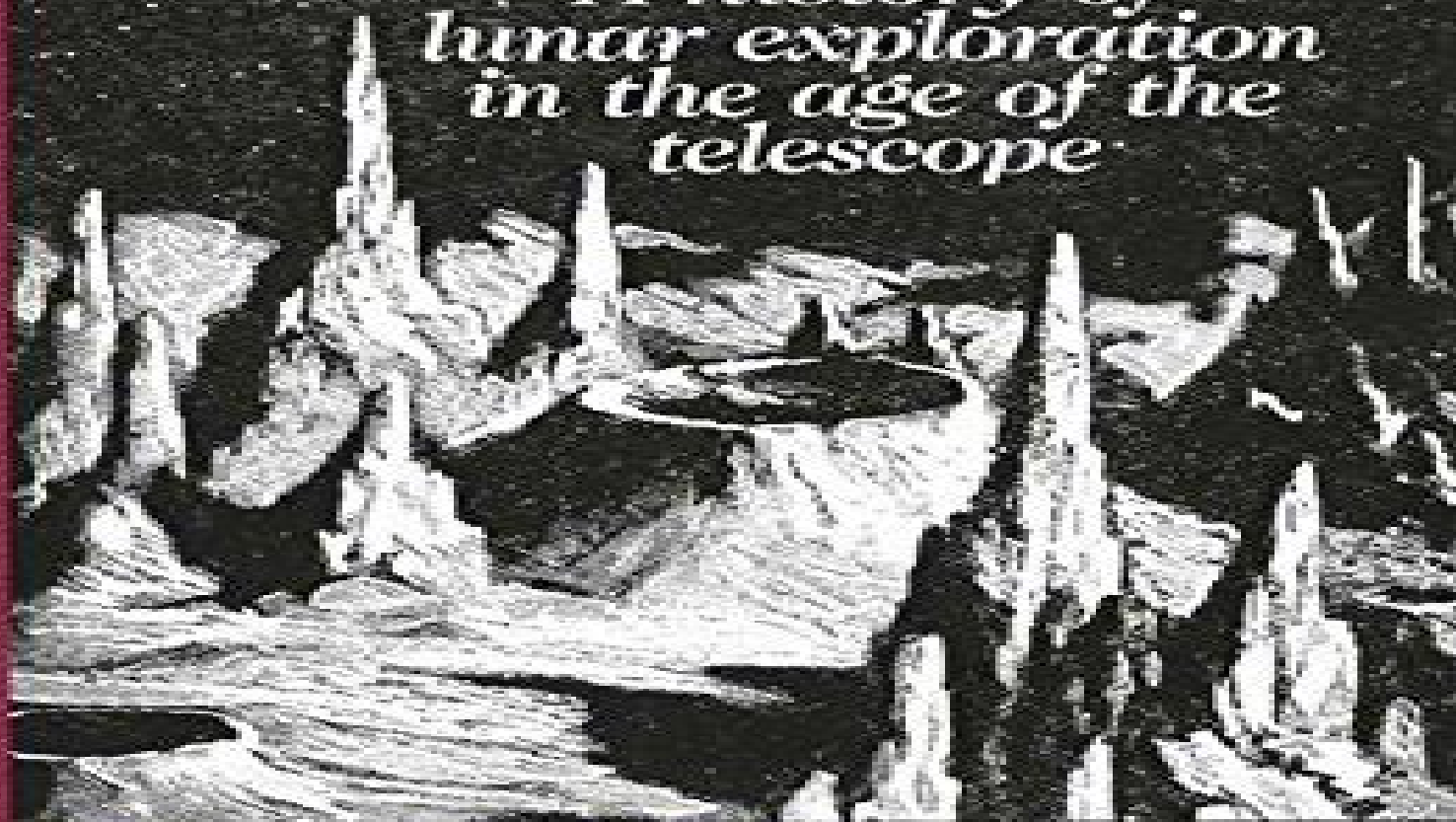


Epic Moon

*A history of
lunar exploration
in the age of the
telescope*



William P. Sheehan • Thomas A. Dobbins

Epic Moon A History Of Lunar Exploration

Christopher Cokinos



Epic Moon A History Of Lunar Exploration:

Epic Moon William Sheehan, Thomas A. Dobbins, 2001 **Space Exploration and Humanity** American Astronautical Society, 2010-08-23 A complete history of human endeavors in space this book also moves beyond the traditional topics of human spaceflight space technology and space science to include political social cultural and economic issues and also commercial civilian and military applications In two expertly written volumes *Space Exploration and Humanity* A Historical Encyclopedia covers all aspects of space flight in all participating nations ranging from the Cold War era beginnings of the space race to the lunar landings and the Apollo Soyuz mission from the Shuttle disasters and the Hubble telescope to Galileo the Mars Rover and the International Space Station The book moves beyond the traditional topics of human spaceflight space technology and space science to include political social cultural and economic issues and also commercial civilian and military applications Produced in conjunction with the History Committee of the American Astronautical Society this work divides its coverage into six sections each beginning with an overview essay followed by an alphabetically organized series of entries on topics such as astrophysics and planetary science civilian and commercial space applications human spaceflight and microgravity science space and society and space technology and engineering Whether investigating a specific issue or event or tracing an overarching historic trend students and general readers will find this an invaluable resource for launching their study of one of humanity's most extraordinary endeavors

Who's Who In The Moon Brian Jones, 2024-12-30 *Who's Who in the Moon* is aimed not only at the beginner or near beginner but also at the backyard astronomer who is perhaps experienced in other areas of observation but who has decided to spend more time considering the Moon as an alternative target The book provides a visual introduction to our closest celestial neighbor opening with an introductory section which details both with the history of lunar mapping and naming of lunar formations as well as providing useful information on observing the lunar surface and what observers can realistically expect to see when they look at the Moon with the naked eye binoculars or a small medium telescope The introductory section is followed by a lengthy series of images including not only wide field panoramic views but also a large number of more detailed images showing close up views of different areas of the Moon and featuring individual craters mountains valleys and much more Many of the individual features shown on these images are identified by name and are accompanied by biographical sketches relating to the men and women after whom they are named This is a non technical up close and personal visual look at the Earth's only natural satellite and many of the individual features scattered across its surface Rather than offering itself as a full and exhaustive guide to the lunar surface *A Guide to the Moon* is more of a vade mecum which enables and hopefully encourages the reader to become more acquainted with the lunar landscape on a personal level with a view to learning more about the astronomers and other scientists whose names are immortalised by having lunar features named after them *Who's Who in the Moon* was inspired by and is a tribute to a Memoir published by the British Astronomical Association BAA in 1938 entitled *Who's Who in*

the Moon written by Mary Evershed the first Director of the BAA Historical Section The biographical notes in A Guide to the Moon include examples of those penned by Mary Evershed in her original publication The Moon Bill Leatherbarrow,2018-05-15 The moon has always been the most obvious feature in our night sky It is our nearest celestial neighbour orbiting the earth at an average distance of 384 400 kilometers and is large enough to display significant detail even to the unaided eye Our moon has drawn observers since the dawn of humankind and all people have tried to make sense of the puzzles it poses and the questions it raises The moon provided our ancient ancestors with one of the earliest means of keeping and measuring time and many early religions had cults that worshipped it When it eclipses the sun it provides one of the most awe inspiring views in nature In The Moon celebrated amateur astronomer Bill Leatherbarrow provides expert insight into the history of our study of this compelling astronomical body Drawing on his own decades of lunar observation he describes how and why the observation and study of the moon has evolved particularly in the age of telescopic study He also offers an overview of current scientific thinking and developments in lunar science since the advent of the Space Age even providing practical advice on how to make your own observations of the moon Extensively illustrated with images of the lunar surface taken both from spacecraft and using amateur equipment this book is an accessible introduction to complex astrophysical concepts that will give all amateur astronomers and anyone fascinated by this natural satellite something to moon over

Maps of the Moon Thomás A. S. Haddad,2019-12-30 When does a depiction of the moon become a lunar map This publication addresses this question from theoretical and historical standpoints It is argued that moon maps are of crucial importance to the history of cartography for they challenge established notions of what a map is how it functions what its purposes are and what kind of power it embodies and performs The publication also shows how terrestrial cartography has shaped the history of lunar mapping since the seventeenth century through visual and nomenclature conventions the cultural currency of maps mapmakers social standing and data gathering and projection practices It further demonstrates that lunar cartography has also been organized by an internal principle that is born of the fundamental problem of how to create static map spaces capable of representing a referent that is constantly changing to our eyes as is the visible face of the moon It is suggested that moon maps may be classed in three broad categories according to the kinds of solutions for this representational problem that have been devised over the last 400 years

The Value of the Moon Paul D. Spudis,2016-04-26 While the Moon was once thought to hold the key to space exploration in recent decades the U S has largely turned its sights toward Mars and other celestial bodies instead In The Value of the Moon lunar scientist Paul Spudis argues that the U S can and should return to the moon in order to remain a world leader in space utilization and development and a participant in and beneficiary of a new lunar economy Spudis explores three reasons for returning to the Moon it is close it is interesting and it is useful The proximity of the Moon not only allows for frequent launches but also control of any machinery we place there It is interesting because recorded deep on its surface and in its craters is the preserved history of

the moon the sun and indeed the entire galaxy And finally the moon is useful because it is rich with materials and energy The moon Spudis argues is a logical base for further space exploration and even a possible future home for us all Throughout his work Spudis incorporates details about man s fascination with the moon and its place in our shared history He also explores its religious cultural and scientific resonance and assesses its role in the future of spaceflight and our national security and prosperity

Northern Arizona Space Training Kevin Schindler, William Sheehan, 2017-06-19 During the 1960s and early 1970s northern Arizona played a critical role in fulfilling President Kennedy s bold challenge of sending humans to the moon From the rocky depths of the Grand Canyon to lofty cosmic views from Flagstaff s dark skies northern Arizona was ideal for activities ranging from moon buggy testing and geology training to lunar mapping and mission simulation Every astronaut who walked on the moon from Neil Armstrong to Gene Cernan prepared for his journey in northern Arizona and all used maps created by Flagstaff artists to navigate their way around the lunar surface This book captures the spirit of these pioneers with stunning images from NASA the US Geological Survey and others

Observing the Moon Gerald North, 2007-07-05 Written by an experienced and well known lunar observer this is a hands on primer for the aspiring observer of the Moon Whether you are a novice or are already experienced in practical astronomy you will find plenty in this book to help you raise your game to the next level and beyond In this thoroughly updated second edition the author provides extensive practical advice and sophisticated background knowledge of the Moon and of lunar observation It incorporates the latest developments in lunar imaging techniques including digital photography CCD imaging and webcam observing and essential advice on collimating all common types of telescope Learn what scientists have discovered about our Moon and what mysteries remain still to be solved Find out how you can take part in the efforts to solve these mysteries as well as enjoying the Moon s spectacular magnificence for yourself

Evolving Theories on the Origin of the Moon Warren D. Cummings, 2019-09-25 This book follows the development of research on the origin of the Moon from the late 18th century to the present By gathering together the major texts papers and events of the time it provides a thorough chronicle of the paradigmatic shift in planetary science that arose from the notion that the Earth Moon system was formed from two colliding planetary bodies The book covers pre Apollo ideas the conceptual evolution during and subsequent to the Apollo explorations of the Moon and the development of the Earth Moon system consensus A plethora of excerpts from key publications are included to demonstrate the shift in scientific focus over the centuries Through its comprehensive review of lunar science research and literature this book shows how new technologies and discoveries catalyzed the community and revolutionized our understanding of the Moon s formation

Selene's Two Faces , 2018-08-13 If any scientific object has over the course of human history aroused the fascination of both scientists and artists worldwide it is beyond doubt the moon The moon is also by far the most interesting celestial body when it comes to reflecting on the dualistic nature of photography as applied to the study of the universe Against this background Selene s Two Faces sets out to look at the scientific purpose aesthetic

expression and influence of early lunar drawings maps and photographs including spacecraft imaging In its approach *Selene's Two Faces* is intermedial intercultural and interdisciplinary It brings together not only various media photography maps engravings lithographs globes texts and cultures from Europe America and Asia but also theoretical perspectives See inside the book

Solar System Maps Nick Kanas, 2013-09-25 In recent years there has been increased interest in our Solar System This has been prompted by the launching of giant orbiting telescopes and space probes the discovery of new planetary moons and heavenly bodies that orbit the Sun and the demotion of Pluto as a planet In one generation our place in the heavens has been challenged but this is not unusual Throughout history there have been a number of such world views Initially Earth was seen as the center of the universe and surrounded by orbiting planets and stars Then the Sun became the center of the cosmos Finally there was no center just a vast array of galaxies with individual stars some with their own retinue of planets This allowed our Solar System to be differentiated from deep sky objects but it didn't lose its mystery as more and more remarkable bodies were discovered within its boundaries This book tells the exciting story of how we have conceptualized and mapped our Solar System from antiquity to modern times In addition to the complete text this story is made more vivid by 162 Solar System and planetary maps diagrams and images over a third in color direct quotes and figures from antiquarian contemporary and Space Age documents and photographs that allow the reader to track how humans have viewed the Solar System from original sources nine tables that compare the various world views relative planetary positions and components of the Solar System with each other Broad in scope and rich in imagery this book will draw the reader into the story of our Solar System and how it has been mapped since the beginning of recorded time

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

Still As Bright Christopher Cokinos, 2024-04-02 An immersive exploration of the nightly presence that has captured our imagination for the entirety of human history When the Moon rises between buildings or over trees it's not just a beautiful light It's an archive of human longing fear and adventure The Moon is more than a rock It's a story In the luminously told *Still As Bright* the story of the Moon traverses time and space rendering a range of human experiences from the beliefs of ancient cultures to the science of Galileo's telescopic discoveries from the obsessions of colorful 19th century selenographers to the astronauts of Apollo and now Artemis *Still As Bright* also traces Cokinos's own lunar pilgrimage With his backyard telescope he explores the surface of the Moon while rooted in places both

domestic and wild and this award winning poet and writer rediscovers feelings of solace love and wonder in the midst of loss and change Simultaneously steeped in rigorous cultural and scientific history as well as memoir *Still As Bright* is a thoughtful deeply moving evergreen natural history It takes readers on a lyrical journey that spans the human understanding of our closest celestial neighbor whose multi faceted appeal has worked on witches scientists poets engineers and even billionaires *Still As Bright* is a must read for anyone who has ever looked up into the night sky in awe and wonder Readers will never look at the Moon the same way again *Galactic Encounters* William Sheehan, Christopher J. Conselice, 2014-09-17 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

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 *Star Maps* Nick Kanas, 2012-06-05 Until the publication of the first edition of *Star Maps* books were either general histories of astronomy using examples of antiquarian celestial maps as illustrations or catalogs of celestial atlases that failed to trace the flow of sky map development over time The second edition focuses on the development of contemporary views of the heavens and advances in map making It captures the beauty and awe of the heavens through images from antiquarian celestial prints and star atlases This book uniquely combines a number of features 1 the history of celestial cartography is traced from ancient to modern times 2 this development is integrated with contemporary cosmological systems 3 the artistry of sky maps is shown using beautiful color images from actual celestial atlases and prints 4 each illustration is accompanied by a legend explaining what is being shown and 5 the text is written for the lay reader

based on the author's experience with writing articles for amateur astronomy and map collector magazines This updated second edition of *Star Maps* contains over 50 new pages of text and 44 new images 16 in color including completely new sections on celestial frontispieces deep sky objects playing card maps additional cartographers and modern computerized star maps There is also expanded material about celestial globes volvelles telescopes and planets and asteroids

Literature in the Age of Celestial Discovery Judy A. Hayden, 2016-04-08 The reconfiguration and relinquishing of one's conviction in a world system long held to be finite required for many in the sixteenth and seventeenth centuries a compromise in one's beliefs and the biblical authority on which he or she had relied and this did not come without serious and complex challenges Advances in astronomy such as the theories of Copernicus the development of the telescope and Galileo's discoveries and descriptions of the moon sparked intense debate in Early Modern literary discourse The essays in this collection demonstrate that this discourse not only stimulated international discussion about lunar voyages and otherworldly habitation but it also developed a political context in which these new discoveries and theories could correspond metaphorically to New World exploration and colonization to socio political unrest and even to kingship and regicide

Planetary Cartography and GIS Henrik Hargitai, 2019-02-22 This book approaches geological geomorphological and topographical mapping from the point in the workflow at which science ready datasets are available Though there have been many individual projects on dynamic maps and online GISs in which coding and data processing are given precedence over cartographic principles cartography is more than just processing and displaying spatial data However there are currently no textbooks on this rapidly changing field and methods tend to be shared informally Addressing this gap in the literature the respective chapters outline many topics pertaining to cartography and mapping such as the role and definition of planetary cartography and vs Geographic Information Science theoretical background and practical methodologies in geological mapping science ready versus public ready products a goal procedure focused practical manual of the most commonly used software in planetary mapping which includes generic ArcGIS and its extensions JMARS and specific tools HiView Cratertools etc extracting topographic information from images thematic mapping climate geophysics surface modeling change detection landing site selection shared maps dynamic maps on the web planetary GIS interfaces crowdsourcing crater counting techniques irregular bodies geological unit symbology mapping center activities and web services All chapters were prepared by authors who have actually produced geological maps or GISs for NASA the USGS DLR ESA or MIIGAIIK Taken together they offer an excellent resource for all planetary scientists whose research depends on mapping and for students of astrogeology

The Moon and How to Observe It Peter Grego, 2005-12-16 This revolutionary new book is written for practical amateur astronomers who not only want to observe but want to know the details of exactly what they are looking at The Moon is the most commonly observed of all astronomical objects This is the first book to deal equally with the Moon itself its formation geology and history as well as the practical aspects of observation The concept of

the book and of the series is to present an up to date detailed description of the Moon including its origins history and geology part one and then part two to consider how best to observe and record it successfully using commercially available equipment The Moon and How to Observe It is a mine of information for all levels of amateur observers from the beginner to the experienced Astrobiology, Discovery, and Societal Impact Steven J. Dick, 2018-05-03 Examines humanistic aspects of astrobiology exploring approaches critical issues and implications of the discovery of extraterrestrial life

Unveiling the Magic of Words: A Overview of "**Epic Moon A History Of Lunar Exploration**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Epic Moon A History Of Lunar Exploration**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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