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Your Guide to the 2017 Total Solar Eclipse

In this book Astronomy Magazine editor Michael Bakich presents all the information you'll need to be ready for the total solar eclipse that will cross the United States on August 21, 2017. In this one resource you'll find out where the eclipse will occur, how to photograph the event, detailed weather forecasts for locations where the Moon's shadow will fall, and much more. Written in easy-to-understand language (and with a glossary for those few terms you may not be familiar with), this is the must-have reference for this unique occurrence. It's not a stretch to say that this eclipse[...]

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Faith 7
L. Gordon Cooper, Jr., and the Final Mercury Mission

This book celebrates the final spaceflight in the Mercury series, flown by NASA astronaut Gordon Cooper, who led an adventurous life in the cockpit of airplanes and spacecraft alike, and on his Mercury mission he became the last American ever to rocket into space alone. He flew in the Mercury and Gemini programs and served as head of flight crew operations in both the Apollo and Skylab programs. Based on extensive research and first-person interviews, this is a complete history of the Faith 7 flight and its astronaut. Cooper later gained notoriety following the release of the movie, The Right Stuff, in which he was depicted by Dennis Quaid, but Burgess discovers there was even more[...]

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Picture This!
Grasping the Dimensions of Time and Space

Astronomical concepts can be truly hard to comprehend, especially those of planetary sizes and distances from Earth and from each other. These concepts are made more comprehensible by the group of illustrations in this book, which put scale extraterrestrial objects side by side with objects on Earth we can more easily relate to. For example, study the pictures of Earth floating above Jupiter’s Great Red Spot and the asteroid Itokawa resting beside Toronto’s CN Tower. These mind-bending images bring things better into perspective and will help you understand the size and scale of our Solar System. In later chapters, you will be told how close the visionaries of the past came to understanding the vastness of the universe.

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Forthcoming
M. Carroll

Earths of Distant Suns
How We Find Them, Communicate with Them, and Maybe Even Travel There

Based on the latest missions results and supported by commissioned artwork, this book explores the possible lessons we may learn from exoplanets. As the number of known Earth-like objects grows significantly, the author explores what is known about the growing roster of “pale blue dots” far afield. Aided by an increased sensitivity of the existing observatories, recent discoveries by Keck, the Hubble Space Telescope, and Kepler are examined. These findings, once thought to be closer to the realm of science fiction, have fired the imaginations of the general public as well as scientists. All of us are mesmerized by the possibility of other Earth-like worlds out there. Author Michael [...] More on www.springer.com/978-3-319-43963-1

Forthcoming
S.R. Chadwick, M. Paviour-Smith

The Great Canoes in the Sky
Starlore and Astronomy of the South Pacific

Presenting spectacular photographs of astronomical objects of the southern sky, all taken by author Stephen Chadwick, this book explores what peoples of the South Pacific see when they look up at the heavens and what they have done with this knowledge. From wives killing brothers to emus rising out of the desert and great canoes in the sky, this book offers the perfect blend of science, tradition and mythology to bring life to the most famous sights in the heavens above the southern hemisphere. The authors place this starlore in the context of contemporary understandings of astronomy. The night sky of southern societies is as rich in culture as it is in stars. Stories, myths and [...] More on www.springer.com/978-3-319-22622-4

Forthcoming
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Europa’s Lost Expedition
A Scientific Novel

This classically styled, chilling murder mystery about an expedition under the ice of Jupiter’s ocean moon Europa, backed up by the latest scientific findings on this icy satellite. The science fiction premise explores real possibilities of exploring other bodies in the Solar System, including probing their possible astrobiology. Now that the most recent world war has concluded on Earth, human explorers are returning to exploration, carrying out a full-court press to journey into the alien abyss using tele-operated biorobots and human-tended subsimmers. Nine scientists head out to Jupiter’s icy ocean-moon. But at Europa’s most remote outpost, one by one, the team members...
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Forthcoming

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Stamping the Earth from Space

This unique book presents a historical and philatelic survey of Earth exploration from space. It covers all areas of research in which artificial satellites have contributed in designing a new image of our planet and its environment: the atmosphere and ionosphere, the magnetic field, radiation belts and the magnetosphere, weather, remote sensing, mapping of the surface, observation of the oceans and marine environments, geodesy, and the study of life and ecological systems. Stamping the Earth from Space presents the results obtained with the thousands of satellites launched by the two former superpowers, the USSR and the USA, and also those of the many missions carried out by the ESA. [...] More on www.springer.com/978-3-319-20755-1

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A Clearer View of Things: The Cultural and Ethical Implications of Earth Observation for Environmental Protection

This book shows how our new-found ability to observe the Earth from “the necessary distance” has wide and profound cultural and ethical implications. First of all, it is the outcome of speculations and investigations of human beings in relation to their home planet carried out over millennia. In particular, it reveals a split between the ancient idea of the Earth as nurturing mother and the more recent conception of the Earth as a neutral resource able to be infinitely...
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Erscheinungstermin: September 2, 2016

M. Griffiths

Observing Nebulae
This book enables anyone with suitable instruments to undertake an examination of nebulae and see or photograph them in detail. Nebulae, ethereal clouds of gas and dust, are among the most beautiful objects to view in the night sky. These star-forming regions are a common target for observers and photographers. Griffiths describes many of the brightest and best nebulae and includes some challenges for the more experienced observer. Readers learn the many interesting astrophysical properties of these clouds, which are an important subject of study in astronomy and astrophysics. Non-mathematical in approach, the text is easily accessible to anyone with an interest in the subject. [...]

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Erscheinungstermin: June 28, 2016

K.M. Harrison

Imaging Sunlight Using a Digital Spectroheliograph
Ken M. Harrison’s latest book is a complete guide for amateur astronomers who want to obtain detailed narrowband images of the Sun using a digital spectroheliograph (SHG). The SHG allows the safe imaging of the Sun without the expense of commercial ‘etalon’ solar filters. As the supporting software continues to be refined, the use of the digital spectroheliograph will become more and more mainstream and has the potential to replace the expensive solar filters currently in use. The early chapters briefly explain the concept of the SHG and how it can produce an image from the solar spectrum. A comparison of the currently available narrow band solar filters is followed by a detailed[...]

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W.A. Keller

Inside PixInsight
In this book, Warren Keller reveals the secrets of astro-image processing software PixInsight in a prac-
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Can Science Progress through Errors? Fallacies and Facts

This book advocates the importance and value of errors for the progress of scientific research! Hans Kricheldorf explains that most of the great scientific achievements are based on an iterative process (an ‘innate self-healing mechanism’): errors are committed, being checked over and over again, through which finally new findings and knowledge can arise. New ideas are often first confronted with refusal. This is so not only in real life, but also in scientific and medical research. The author outlines in this book how great ideas had to ripen over time before winning recognition and being accepted. The book showcases an entertaining way, but without schadenfreude, that even some[...]

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Eating Anthropocene

Curd Rice, Bienenstich and a Pinch of Phosphorus - Around the World in Ten Dishes

Do we have the right recipes for the world of the future? Science meets comics. Twelve illustrators from different cultural backgrounds take readers on a culinary journey through the continents, providing fascinating insights into a multitude of eating habits and food cultures from around the world. With its subjectively told and individually illustrated stories, this comic not only unveils human beings’ varied use and management of available resources, it also sheds light on the effects of this approach on global material flows. Phosphorus plays a central role in this context due to its paramount importance for all living things. Both the content and design of the comic are influenced[...]

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Forthcoming
R.A. Norman, S.P. Paul

The Last Natural Man
Where Have We Been and Where Are We Going?
This book explores cultural evolution and the meaning of the word ‘natural’. We are at the crossroads of a major transformation. Why is our current time so important in the history of man? We are at a point where we may be the last generation that is not partially or fully bionic. The last natural man: natural in what way? What is “natural”? Is it a catch phrase like “integrative” or “holistic” that transmits a certain magical warm glow? If the word “natural” was a plant, it would be beautiful, green, luxuriant, and edible. Does it mean we are the last to not replace or modify our parts? What about laser surgery? Knee or hip replacement? Botox and fillers? Chemical therapy? Or a [...] More on www.springer.com/978-3-319-42215-2

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D.A.J. Seargent

Visually Observing Comets
In these days of computers and CCD cameras, visual comet observers can still contribute scientifically useful data with the help of this handy reference for use in the field. Comets are one of the principal areas for productive pro-amateur collaboration in astronomy, but finding comets requires a different approach than the observing of more predictable targets. Principally directed toward amateur astronomers who prefer visual observing or who are interested in discovering a new comet or visually monitoring the behavior of known comets, it includes all the advice needed to thrive as a comet observer. After presenting a brief overview of the nature of comets and how we came to the [...] More on www.springer.com/978-3-319-45434-4

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**The Exo-Weather Report**  
**Exploring Diverse Atmospheric Phenomena Around the Universe**

David Stevenson’s new book links the meteorology of the Earth to that of other planets, stars, and clusters of galaxies, showing the similarities and differences between terrestrial weather and that of weather on other worlds. Because Earth is not unique in having weather, there is much to learn from other planets with atmospheres that show the movement of energy from hotter to colder areas. The weather seen on Earth and other known planetary systems are examined to elaborate the connection between climate and the development of life. The weather on Earth and other Solar System planets is a manifestation of the huge energy budget imparted by our star, the Sun, but weather doesn’t stop [...] More on www.springer.com/978-3-319-25677-1

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**Codex Orféo**  
**A Novel**

Explore shattering ethical, political and practical quagmires in this gripping ecological thriller. A tense plot deals with devastating scientific, secret intelligence and geopolitical issues. “You alright, Professor?” Mal asked in a whisper. “Yeah, I’ll be alright.” World renowned ecologist, UCLA Professor David Lev, aged 84, has just begun a contemporary odyssey. From delivering a plenary address on climate change at the Rio+20 UN Summit, he must prevail on a journey through sub-zero hurricane-force gales, impenetrable bogs and twelve foot drifts of ice in the forests of Belarus. Along the way, Lev’s journey directs us to consider such profound questions as: Are we our Brother’s [...] More on www.springer.com/978-3-319-30621-6

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**Science, Culture and the Search for Life on Other Worlds**

This book explores humanity’s thoughts and ideas about extraterrestrial life, paying close attention to the ways science and culture interact with one another to create a context of imagination and discovery related to life on other worlds. Despite the recent explosion in our knowledge of other planets and the seeming era of discovery in which we live, to date we have found no concrete evidence that we are not alone. Our thinking about life on other worlds has been and remains the product of a combination of scientific investigation and human imagination shaped by cultural values—particularly values of exploration and discovery connected to American society. The rapid growth in our [...] More on www.springer.com/978-3-319-41744-8

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