SPRING 2017 – Title Selection
Popular Science

978-1-84457-955-6  The Man Who Knew Too Much
978-3-319-46987-4  Antoine-Mahut, BP 7000  Descartes’ Treatise on Man and its Reception
978-3-319-31040-4  Armstrong  Star Ark  A Living, Self-Sustaining Spaceship
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978-3-319-27630-4  Bakich  Your Guide to the 2017 Total Solar Eclipse
978-3-319-48774-8  Beech  The Pillars of Creation  Giant Molecular Clouds, Star Formation, and Cosmic Recycling
978-3-319-50214-4  Borrelli  The Optics of Giambattista Della Porta (ca. 1535–1615): A Reassessment
978-3-319-36872-6  Byrne  The Moon’s Largest Craters and Basins  Images and Topographic Maps from LRO, GRAIL, and Kaguya
978-3-319-22622-4  Chadwick  The Great Canoes in the Sky  Starlore and Astronomy of the South Pacific
978-3-319-52412-2  Chen  Astronomy for Older Eyes  A Guide for Aging Backyard Astronomers
978-3-319-49429-6  Cormack  Mathematical Practitioners and the Transformation of Natural Knowledge in Early Modern Europe
978-94-024-0968-0  Crull  Grete Hermann - Between Physics and Philosophy
978-3-319-47830-2  Datta  LaTeX in 24 Hours  A Practical Guide for Scientific Writing
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978-3-319-54053-5  De La Rocha  Silica Stories
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The Man Who Knew Too Much

Eminent Hitchcock specialist Murray Pomerance offers an illuminating account of one of Hitchcock’s most successful films, The Man Who Knew Too Much (1956), starring James Stewart and Doris Day. Through a close reading of the film alongside analysis of its complex production history, Pomerance underlines its significance within Hitchcock’s oeuvre.

More on www.springer.com/978-1-84457-955-6

Softcover
2016. 96 p. (BFI Film Classics)
► 21,39 €
Versandfertig innerhalb von 3 Tagen.

DesCartes’ Treatise on Man and its Reception

This edited volume features 20 essays written by leading scholars that provide a detailed examination of L’Homme by René Descartes. It explores the way in which this work developed themes not just on questions such as the circulation of the blood, but also on central questions of perception and our knowledge of the world. Coverage first offers a critical discussion on the different versions of L’Homme, including the Latin, French, and English translations and the 1664 editions. Next, the authors examine the early reception of the work, from the connection of L’Homme to early-modern Dutch Cartesianism to Nicolas Steno’s criticism of the work and how Descartes’ clock analogy is used to[...]

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Hardcover
2016. VI, 304 p. 28 illus. (Studies in History and Philosophy of Science, Band 43)
► 106,99 €
ISBN 978-3-319-46987-4
Gewöhnlich versandfertig in 3-5 Werktagen.

Star Ark

A Living, Self-Sustaining Spaceship

As space ventures have become more numerous, leading scientists and theorists have offered ways of building a living habitat in a hostile environment, taking an ‘ecosystems’ view of space colonization. The contributors to this volume take a radical multi-disciplinary view of the challenge of human space colonization through the ongoing project Persephone. This book fundamentally challenges prevalent ideas about sustainability and proposes a new approach to resource austerity and conservation and providing truly sustainable approaches that are life-promoting. Readers will learn the details of the plans for Persephone – a real project that is part of the company Icarus Interstellar’s[...]

More on www.springer.com/978-3-319-31040-4

Softcover
2017. XII, 492 p. 127 illus., 107 illus. in color. (Space Exploration)
► 42,79 €
ISBN 978-3-319-31040-4
Gewöhnlich versandfertig in 3-5 Werktagen.

Video Astronomy on the Go

Using Video Cameras With Small Telescopes

Author Joseph Ashley explains video astronomy’s many benefits in this comprehensive reference guide for amateurs. Video astronomy offers a wonderful way to see objects in far greater detail than is possible through an eyepiece, and the ability to use the modern, entry-level video camera to image deep space objects is a wonderful development for urban astronomers in particular, as it helps sidestep the issue of light pollution. The author addresses both the positive attributes of these cameras for deep space imaging as well as the limitations, such as amp glow. The equipment needed for imaging as well as how it is configured is identified with hook-up diagrams and photographs. Imaging[...]

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Softcover
2017. XIII, 205 p. 75 illus., 34 illus. in color. (The Patrick Moore Practical Astronomy Series)
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ISBN 978-3-319-46935-5
Gewöhnlich versandfertig in 3-5 Werktagen.

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 observe it safely, what you’ll experience during the eclipse, the best equipment to choose, 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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2016. XIII, 395 p. 273 illus., 255 illus. in color. (The Patrick Moore Practical Astronomy Series)
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ISBN 978-3-319-27630-4
Gewöhnlich versandfertig in 3-5 Werktagen.

J. Ashley

M. Bakich

R. Armstrong (Ed.)
The Optics of Giambattista Della Porta (ca. 1535–1615): A Reassessment

This volume contains essays that examine the optical works of Giambattista Della Porta, an Italian natural philosopher during the Scientific Revolution. Coverage also explores the science and technology of early modern optics. Della Porta’s groundbreaking book, Magia Naturalis (Natural Magic), includes a prototype of the camera. Yet, because of his obsession with magic, Della Porta’s scientific achievements are often forgotten. As the contributors argue, his work inspired such great minds as Johannes Kepler and Francis Bacon. After reading this book, researchers, historians, and students will have a better appreciation of this influential scientist. They will also gain a greater [...] More on www.springer.com/978-3-319-52412-2

Astronomy for Older Eyes
A Guide for Aging Backyard Astronomers

This book is for the aging amateur astronomy population, including newcomers to astronomy in their retirement and hobbyists who loved peering through a telescope as a child. Whether a novice or an experienced observer, the practice of astronomy differs over the years. This guide will extend the enjoyment of astronomy well into the Golden Years by addressing topics such as eye and overall health issues, recommendations on telescope equipment, and astronomy-related social activities especially suited for seniors. Many Baby-Boomers reaching retirement age are seeking new activities, and amateur astronomy is a perfect fit as a leisure time activity. Established backyard astronomers who [...] More on www.springer.com/978-3-319-52412-2

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 wars 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 to life 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

A Guide for Aging Backyard Astronomers

This book is for the aging amateur astronomy population, including newcomers to astronomy in their retirement and hobbyists who loved peering through a telescope as a child. Whether a novice or an experienced observer, the practice of astronomy differs over the years. This guide will extend the enjoyment of astronomy well into the Golden Years by addressing topics such as eye and overall health issues, recommendations on telescope equipment, and astronomy-related social activities especially suited for seniors. Many Baby-Boomers reaching retirement age are seeking new activities, and amateur astronomy is a perfect fit as a leisure time activity. Established backyard astronomers who [...] More on www.springer.com/978-3-319-22622-4

Mathematical Practitioners and the Transformation of Natural
Knowledge in Early Modern Europe

This book argues that we can only understand transformations of nature studies in the Scientific Revolution if we take seriously the interaction between practitioners (those who know by doing) and scholars (those who know by thinking). These are not in opposition, however. Theory and practice are end points on a continuum, with some participants interested only in the practical, others only in the theoretical, and most in the murky intellectual and material world in between. It is this borderland where influence, appropriation, and collaboration have the potential to lead to new methods, new subjects of enquiry, and new social structures of natural philosophy and science. The case for[...]

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2017. XII, 203 p. 13 illus., 1 illus. in color. (Studies in History and Philosophy of Science, Band 45)
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ISBN 978-3-319-49429-6
Erscheinungstermin: March 14, 2017

LaTeX in 24 Hours
A Practical Guide for Scientific Writing

This book presents direct and concise explanations and examples to many LaTeX syntax and structures, allowing students and researchers to quickly understand the basics that are required for writing and preparing book manuscripts, journal articles, reports, presentation slides and academic theses and dissertations for publication. Unlike much of the literature currently available on LaTeX, which takes a more technical stance, focusing on the details of the software itself, this book presents a user-focused guide that is concerned with its application to everyday tasks and scenarios. It is packed with exercises and looks at topics like formatting text, drawing and inserting tables and[...]

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2017. XXV, 271 p. 7 illus.
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Erscheinungstermin: March 9, 2017

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 Soviet and failures will be discussed, pointing the way to a successful space[...]

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Gewöhnlich versandfertig in 3-5 Werktagen.

Forthcoming
C. De La Rocha, D.J. Conley

Silica Stories

Do you know silica, the tetrahedra of silicon and oxygen constituting the crystals of New Agers and the desiccant in a box of new shoes? It’s no mere mundane mineral. As chemically reacting silicate rocks, silica set off the chain of events known as the origin of life. As biomineralized opal, it is the cell wall, skeleton, spicules, and scales of organisms ornamenting numerous lobes of the tree of life. Cryptocrystalline silica made into stone tools helped drive the evolution of our hands and our capability for complex grammar, music, and mathematics. As quartz crystals, silica is impressively electric and ubiquitous in modern technology (think sonar, radios, telephones, ultrasound,[...]

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Erscheinungstermin: May 8, 2017

The Politics and Perils of Space Exploration
Who Will Compete, Who Will Dominate?

Written by a former Aerodynamics Officer on the space shuttle program, this book provides a complete overview of the “new” U. S. space program, which has changed considerably over the past 50 years. The future of space exploration has become increasingly dependent on other countries and private enterprise. Can private enterprise fill NASA’s shoes and provide the same expertise, safety measures and lessons learned? In order to tell this story, it is important to understand the politics of space as well as the dangers, why it is so difficult to explore and utilize the resources of space. Some past and recent triumphs

L. Dawson

LaTeX in 24 Hours
A Practical Guide for Scientific Writing

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R. Dicati

The Politics and Perils of Space Exploration
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Evolution Driven by Organismal Behavior

A Unifying View of Life, Function, Form, Mismatches and Trends

This book proposes a new way to think about evolution. The author carefully brings together evidence from diverse fields of science. In the process, he bridges the gaps between many different—and usually seen as conflicting—ideas to present one integrative theory named ONCE, which stands for Organic Nonoptimal Constrained Evolution. The author argues that evolution is mainly driven by the behavioral choices and persistence of organisms themselves, in a process in which Darwinian natural selection is mainly a secondary—but still crucial—evolutionary player. Within ONCE, evolution is therefore generally made of mistakes and mismatches and trial-and-error situations, and is not a [...]

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Erscheinungstermin: March 26, 2017

R. Diogo

Sea – Wind – Power

Research at the first German offshore wind farm Alpha Ventus

This book reports on the objectives, methods used and difficulties faced by the RAVE research projects, and presents the results and their significance for the future use of offshore wind energy in a style that is understandable for everyone. Readers are given a comprehensive overview of the current status of offshore wind energy research and the results of the research activities. Offshore wind energy will play a significant role in our future energy supply, yet this development has really only just begun. A large team of experts from the fields of research, industry, public administration and government therefore set themselves the goal of investigating the current and fundamental [...]

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M. Durstewitz, B. Lange (Eds.)

Health and Lifestyle

Separating the Truth from the Myth with Statistics

The main message of this book is that people should be on their guard against both scare stories about risks to health, and claims for miracle cures of medical conditions. In the 21st century hardly a day passes without another article appearing in the media about a new treatment for a particular disease, new ways of improving our health by changing our lifestyle or new foodstuffs that claim to increase (or decrease) the risk of heart disease, cancer and the like. But how should the general public react to such claims, given that some of the journalists writing them focus on the sensational rather than the mundane and often have no qualms about sacrificing accuracy and honesty for [...]

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B.S. Everitt

Space Telescopes

Capturing the Rays of the Electromagnetic Spectrum

Space telescopes are among humankind’s greatest scientific achievements of the last fifty years. This book describes the instruments themselves and what they were designed to discover about the Solar System and distant stars. Exactly how these telescopes were built and launched and the data they provided is explored. Only certain kinds of radiation can penetrate our planet’s atmosphere, which limits what we can observe. But with space telescopes all this changed. We now have the means to “see” beyond Earth using ultraviolet, microwave, and infrared rays, X-rays and gamma rays. In this book we meet the pioneers and the telescopes that were built around their ideas. This book looks at [...]

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2017. XII, 312 p. 88 illus. in color. (Astronomers’ Universe)

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ISBN 978-3-319-27812-4

Gewöhnlich versandfertig in 3-5 Werktagen.

N. English
Economic Ideas You Should Forget

Reporting on cutting-edge advances in economics, this book presents a selection of commentaries that reveal the weaknesses of several core economics concepts. Economics is a vigorous and progressive science, which does not lose its force when particular parts of its theory are empirically invalidated; instead, they contribute to the accumulation of knowledge. By discussing problematic theoretical assumptions and drawing on the latest empirical research, the authors question specific hypotheses and reject major economic ideas from the “Coase Theorem” to “Say’s Law” and “Bayesianism.” Many of these ideas remain prominent among politicians, economists and the general public. Yet, in the...

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2017. X, 140 p. 145 illus., 57 illus. in color. (Space Exploration)
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ISBN 978-3-319-47457-1
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The Canadian Space Program From Black Brant to the International Space Station

Canada’s space efforts from its origins towards the end of the Second World War through to its participation in the ISS today are revealed in full in this complete and carefully researched history. Employing recently declassified archives and many never previously used sources, author Andrew B. Godefroy explains the history of the program through its policy and many fascinating projects. He assesses its effectiveness as a major partner in both US and international space programs, examines its current national priorities and capabilities, and outlines the country’s plans for the future. Despite being the third nation to launch a satellite into space after the Soviet Union and the United[...]

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► 37,44 €
ISBN 978-3-319-32882-9
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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 astrobiology. Non-mathematical in approach, the text is easily accessible to anyone with an interest in the subject. A[...]

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The Perfect Shape Spiral Stories

This book uses the spiral shape as a key to a multitude of strange and seemingly disparate stories about art, nature, science, mathematics, and the human endeavour. In a way, the book is itself organized as a spiral, with almost disconnected chapters circling around and closing in on the common theme. A particular strength of the book is its extremely cross-disciplinary nature - everything is fun, and everything is connected! At the same time, the author puts great emphasis on mathematical and scientific correctness, in contrast, perhaps, with some earlier books on spirals. Subjects include the mathematical properties of...
spirals, sea shells, sun flowers, Greek architecture, air ships,[...]

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C. Keating

Kenneth Warren and the Great Neglected Diseases of Mankind Programme
The Transformation of Geographical Medicine in the US and Beyond
Kenneth Warren was a powerful figure in twentieth century medicine whose work transformed public health policy and tropical medicine, and who left a profound legacy in global health thinking. A prolific writer and researcher, Warren was respected for his scientific research, winning awards and accolades, while his later role as activist, agitator, innovator and connoisseur of science brought him international recognition. His career in medicine is remembered for three enduring achievements:

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R. Leinfelder, A. Hamann, J. Kirstein, M.-A. Schleunitz (Eds.)

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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D. Martinelli (Ed.)

Give Peace a Chant
Popular Music, Politics and Social Protest
This monograph offers a unique analysis of social protest in popular music. It presents theoretical descriptions, methodological tools, and an approach that encompasses various fields of musicology, cultural studies, semiotics, discourse analysis, media studies, and political and social sciences. The author argues that protest songs should be taken as a musical genre on their own. He points out that the general approach, when discussing these songs, has been so far that of either analyzing the lyrics or the social context. For some reason, the music itself has often been overlooked. This book attempts to fill this gap. Its central thesis is that a complete overview of these [...]

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D. McColl

Australia's Little Space Travellers
The Flight Shaped Tektites of Australia
This book provides a showcase for the incredibly well-preserved flight-textured tektites of southern Australia, which are the world's finest known examples. It provides an overview of their forms and flight fea-
tures, which can be expected to appear, at least in part, on any objects falling from space. Some of these specimens are so perfectly shaped that it is hard to believe that they have been buried in the recent strata of Australia for 770,000 years. It also discusses the history of the story of their incredible flight into space and return becoming widely accepted, which led to them being recognized as space travelers. Further, it describes their classical shapes and offers an[...]

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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[...]

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J.N. Pelton

The New Gold Rush
The Riches of Space Beckon!

This book captures the most exciting advances in the harnessing of space as a global resource. The authors track the growing number of space businesses and opportunities for investors, and the many possible benefits of spaceplanes, space stations and even space colonies. The authors also discuss the need for more regulatory reform. Companies like Planetary Resources are now forming to find mineral-rich asteroids and bring back new riches to Earth. Solar power satellites in the next few years will start to beam clean energy back to Earth, to meet the growing demands of a still-developing world. Innovative space industries are vital to the survival of modern human life, and the authors[...]

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E. Seedhouse

Mars One
The Ultimate Reality TV Show?

This book dissects the hype and hubris of the Mars One venture. Every aspect of the mission design is scrutinized, from the haphazard selection process...
to the unproven mission architecture. A controversial project, many professional astronauts consider Mars One a reckless attempt, yet it gained popular attention. This go-to reference guide provides the reader with insights into the myriad issues arising from the project’s loss of funding, loss of sponsorship, loss of TV rights. It explains what contributed to an overly optimistic assessment of Mars One’s mission-specific technology, and what captivated the public and the many willing candidates despite these flaws. From the author[...]

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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[...]

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M.C. Tobias, J.G. Morrison

Anthrozoology
Embracing Co-Existence in the Anthropocene

This groundbreaking work of both theoretical and experiential thought by two leading ecological philosophers and animal liberation scientists ventures into a new frontier of applied ethical anthrozoological studies. Through lean and elegant text, readers will learn that human interconnections with other species and ecosystems are severely endangered precisely because we lack - by our evolutionary self-confidence - the very coherence that is everywhere around us abundantly demonstrated. What our species has deemed to be superior is, according to Tobias and Morrison, the cumulative result of a tragically tenuous argument predicated on the brink of our species’ self-destruction, giving[...]

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Forthcoming

Astronomy Adventures and Vacations
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This astronomy travel guide exposes the many wonderful opportunities for experiencing the observing hobby farther afield. Amateur astronomy is often consigned to observing from home or from a local park, yet it can be much more. Treadwell explores all the possibilities of astronomical and space-related activities that are available on day trips and longer vacations. These activities range from observatory visits and other simple ways to build an astronomy event into a holiday, to full blown specialized
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K.L. Tuteja, K. Chakraborty (Eds.)
Tagore and Nationalism
This volume brings together eminent Tagore scholars and younger writers to revisit the concepts of nation, nationalism, identity and selfhood, civilization, culture and homeland in Tagore’s writings. As these ideas take up the centre-stage of politics in the subcontinent as also elsewhere in the world in the 21st century, it becomes extremely relevant to revisit his works in this context. Tagore’s ambivalence towards nationalism as an ideology was apparent in the responses in his discussions with Indians and non-Indians alike. Tagore developed the concept of ‘syncretic’ civilization as a basis of nationalist civilizational unity, where society was central, unlike the European model of [...] More on www.springer.com/978-81-322-3695-5

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Exploring Past Notions of the Future
It has been argued that science fiction (SF) gives a kind of weather forecast – not the telling of a fortune but rather the rough feeling of what the future might be like. The intention in this book is to consider some of these bygone forecasts made by SF and to use this as a prism through which to view current developments in science and technology. In each of the ten main chapters - dealing in turn with antigravity, space travel, aliens, time travel, the nature of reality, invisibility, robots, means of transportation, augmentation of the human body, and, last but not least, mad scientists - common assumptions once made by the SF community about how the future would turn out are [...] More on www.springer.com/978-3-319-49087-8

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J.B. Williams
The Electric Century
How the Taming of Lightning Shaped the Modern World
This book is about how electricity has profoundly changed the way we live, work, and play. Some twenty
topics are covered, with an abundance of graphs and images to build a comprehensive picture. Each looks at the developments, and the people who initiated them, together with how one led to the next and their subsequent impact on society. Topics include electric supply, lighting through X-rays, and all those appliances that make our homes so comfortable. Most homes at the end of the twentieth century were full of electrical equipment, much of which was regarded as essential. It ran from lights, washing machines, fridges, freezers, kettles, telephones and so on, to the more subtle[…]

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Y.-t. Wong

A Paradise Lost
The Imperial Garden Yuanming Yuan

This book is aimed at readers and researchers who are interested in Chinese garden architecture, the rise and fall of Yuanming Yuan and the history of the Qing dynasty. It is the first comprehensive study of the palatial garden complex in a Western language, and is amply illustrated with photographs and original drawings. Young-tsu Wong’s engaging writing style brings “the garden of perfect brightness” to life as he leads readers on a grand tour of its architecture and history.

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