
Apollo, VII - XVII

Type Book
Date 2018
Language en
Library Catalog Library of Congress ISBN
Place New York, NY
Publisher TeNeues Pub
ISBN 978-3-96171-132-1
of Pages 319
Date Added 1/15/2023, 3:42:24 PM
Modified 1/18/2023, 3:43:19 PM

Tags:

OUTER SPACE

Archaeology from space: how the future shapes our past

Type Book
Author Sarah H. Parcak
Abstract "National Geographic Explorer and TED Prize-winner Dr. Sarah Parcak gives readers a personal tour of the evolution, major discoveries, and future potential of the young field of satellite archaeology. From surprise advancements after the declassification of spy photography, to a new map of the mythical Egyptian city of Tanis, she shares her field's biggest discoveries, revealing why space archaeology is not only exciting, but urgently essential to the preservation of the world's ancient treasures. Parcak has worked in twelve countries and four continents, using multispectral and high-resolution satellite imagery to identify thousands of previously unknown settlements, roads, fortresses, palaces, tombs, and even potential pyramids. From there, her stories take us back in time and across borders, into the day-to-day lives of ancient humans whose traits and genes we share. And she shows us that if we heed the lessons of the past, we can shape a vibrant future"--Publisher's description
Date 2020
Language en
Short Title Archaeology from space
Library Catalog Panel on Planetary Thinking
Call Number 009 TF 4171 P225
Extra OCLC: 1237757230
Place New York
Publisher Henry Holt and Company
ISBN 978-1-250-23134-5

of Pages 277**Date Added** 1/15/2023, 3:28:47 PM**Modified** 1/18/2023, 3:43:25 PM**Tags:**

Popular Science, OUTER SPACE

Back to the moon: the next giant leap for humankind**Type** Book**Author** Joseph Silk

Abstract "In December 2022, it will have been fifty years since humankind's last voyage to the Moon. And nations around the world have been gaining momentum, increasingly rapidly, in their planning to return. NASA proposes to land the first woman and next man on the Moon by 2024 (with the Artemis program) and to build a lunar orbiting space station - the Lunar Gateway - that will be capable of sustaining a permanent human presence by 2028. The Lunar Gateway is also meant to be a base for coordinating lunar development and function as a launch site for further solar system exploration (including to Mars and beyond). Meanwhile, the European Space Agency (ESA) has called for the installation of a permanent, human-inhabited village at the lunar southern pole. And, among other lunar projects, China's National Space Administration is also pursuing a human outpost on the Moon. Private entrepreneurs are enthusiastic about mining minerals on the Moon, making rocket fuel for further space exploration, and even developing luxury hotel resorts. These various lunar initiatives that characterize the new space race to the Moon are generally more commercial than scientific. Yet, geared as they are to establish habitable facilities on our nearest neighbor in space, they will also open up the Moon to science and usher in a new age of scientific exploration. While international space agencies and commercial interests jostle and race to create habitable space and profits on the Moon, this book advocates for the science that can be done there and lays out a vision for what the next fifty years of lunar science might look like. In particular, Silk advocates for the pursuit of lunar astronomy and argues that building a telescope on the lunar far side should be an integral part of plans to return to the Moon, as it would be uniquely poised to answer some of the most profound questions facing humankind: where did we come from and are we alone?"--

Date 2022**Language** en**Short Title** Back to the moon**Library Catalog** Panel on Planetary Thinking**Call Number** 009 ZO 8500 S583**Place** Princeton, New Jersey**Publisher** Princeton University Press**ISBN** 978-0-691-21523-5**# of Pages** 292

Date Added 3/1/2023, 1:21:09 PM

Modified 3/1/2023, 1:22:06 PM

Tags:

Space colonies, Exploration, OUTER SPACE, Lunar bases, Moon, Space industrialization

Notes:

The new space race -- Digging deep on the moon -- Robots and humans -- Tuning in to our origins --
The first months of creation -- Our violent past -- Are we alone? -- Survival -- Internationalization --
The next century

China in space: the great leap forward

Type Book

Author Brian Harvey

Date 2019

Language en

Short Title China in space

Library Catalog Panel on Planetary Thinking

Call Number 009 ZO 8000 H341 (2)

Place Cham, Switzerland

Publisher Springer

ISBN 978-3-030-19587-8

Series Springer-Praxis books in space exploration

Edition Second edition

of Pages 552

Date Added 1/15/2023, 3:33:05 PM

Modified 1/18/2023, 3:43:28 PM

Tags:

Asian Studies, OUTER SPACE

Notes:

Includes bibliographical references and index

The far side of the Moon -- Medieval rockets to first satellites -- New rockets, launch sites and ships -- Science and technology -- Communications -- Applications and military -- Manned flight -- To the moon and Mars -- China in perspective "The explosive growth of China's innovative and rapidly developing space program in recent years has made it a "hot" topic in international space policy. This follow up to Harvey's earlier book, China's Space Program - From Conception To Manned Spaceflight (2004) bring us up to date with everything that is happening in the Chinese space program today and looks at its ambitious future. The author briefly summarizes how this program evolved from medieval times, and uncovers the truth behind the bland, unreliable, and generally uninformative news releases issued around each space mission. It also examines the key features of the program, previously unknown to the outside world"--

Attachments

- Table of Contents PDF
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Comets

Type Book

Author P. Andrew Karam

Abstract Radiating fire and ice, comets as a phenomenon seem part science, part myth. 2000 years ago when a comet shot across the night sky, it convinced the Romans that Julius Caesar was a god. In 1066, Halley's Comet was interpreted as a foreshadowing of the death of Harold the Second in the Battle of Hastings. Even today the arrival of a comet often feels auspicious, confirming our hopes, fears and sense of wonder in the universe. P. Andrew Karam takes the reader on a far-ranging exploration of these beautiful and dramatic objects in the skies, revealing how comets and humanity have been interwoven throughout history

Date 2017

Language en

Library Catalog Panel on Planetary Thinking

Call Number 009 US 8800 K18

Place London

Publisher Reaktion Books

ISBN 978-1-78023-830-2

Series Earth series

of Pages 200

Date Added 1/15/2023, 3:16:37 PM

Modified 1/18/2023, 3:43:31 PM

Tags:

Astronomy, OUTER SPACE

Notes:

Includes bibliographical references (pages 189-193) and index

Dark skies: space expansionism, planetary geopolitics, and the ends of humanity

Type Book

Author Daniel Deudney

Abstract "Dark Skies is the first work to assess the full impacts of space expansion, past, present and future. Thinking about space, and the visions fervently promoted by the global space movement, are dominated by geographic misperceptions and utopian illusions. The parts of space where almost all activity has occurred are part of the planet Earth, its astrosphere, and are, in practical terms, smaller than the atmosphere. Contrary to frontier visions, orbital space is already congested and degraded with dangerous space debris. The largest impact of actual space activities is an increased likelihood of catastrophic nuclear war stemming from the use of orbital space and space technology to lob nuclear weapons at intercontinental distances. Building large-scale orbital infrastructures will probably require or produce world government. The ultimate goal of space advocates, the colonization of Mars and asteroids, is promoted to guarantee the survival of humanity if major catastrophes strike Earth. But the spread of humanity into a multi-planet species will likely produce an interstate anarchy highly prone to total war, with Earth having many disadvantages. Altering the orbits of asteroids, a readily achievable technology vital for space colonization, also makes possible 'planetoid bombs' with destructive potentials millions of times great than all nuclear weapons. The biological diversification of humanity into multiple species, anticipated by space advocates, will further stoke interworld wars. Astrocide - the extinction of humanity resulting from significant space expansion - must join the lengthening list of potential threats to human survival. Large-scale space expansion should be relinquished in favour of an Earth-oriented space program of arms control and planetary security. Dark Skies is the first work to assess the full impacts of space expansion, past, present and future. Thinking about space, and the visions fervently promoted by the global space movement, are dominated by geographic misperceptions and utopian illusions. The parts of space where almost all activity has occurred are part of the planet Earth, its astrosphere, and are, in practical terms, smaller than the atmosphere. Contrary to frontier visions, orbital space is already congested and degraded with dangerous space debris. The largest impact of actual space activities is an increased likelihood of catastrophic nuclear war stemming from the use of orbital space and space technology to lob nuclear weapons at intercontinental distances. Building large-scale orbital infrastructures will probably require or produce world government. The ultimate goal of space advocates, the colonization of Mars and asteroids, is promoted to guarantee the survival of humanity if major catastrophes strike Earth. But the spread of humanity into a multi-planet species will likely produce an interstate anarchy highly prone to total war, with Earth having many disadvantages. Altering the orbits of asteroids, a readily achievable technology vital for space colonization, also makes possible 'planetoid bombs' with destructive potentials millions of times great than all nuclear

weapons. The biological diversification of humanity into multiple species, anticipated by space advocates, will further stoke interworld wars. Astrocide - the extinction of humanity resulting from significant space expansion - must join the lengthening list of potential threats to human survival. Large-scale space expansion should be relinquished in favour of an Earth-oriented space program of arms control and planetary security"--

Date 2020
Language en
Short Title Dark skies
Library Catalog Panel on Planetary Thinking
Call Number 009 ZO 8050 D485
Place New York, NY
Publisher Oxford University Press
ISBN 978-0-19-090334-3
of Pages 443
Date Added 1/15/2023, 3:40:50 PM
Modified 1/18/2023, 3:43:35 PM

Tags:

Geopolitics, Exploration, Civilian use Philosophical aspects, Space warfare, Strategic aspects, OUTER SPACE

Notes:

Includes index

Das Weltall: ein Spaziergang durch die Geheimnisse des Universums

Type Book
Author Edwige Pezzulli
Author Rosa Valiante
Author Maria C. Orofino
Author Simona Gallerani
Author Raffaella Schneider
Author Tullia Sbarrato
Author Silvia Vecchini
Author Alice Beniero
Translator Ulrike Schimming
Abstract Das Team von sechs Autorinnen (aus der Astrophysik) nimmt die Leser*innen - verpackt in die Rahmenhandlung einer erzählenden grossen Schwester - mit auf eine Reise ins Universum, geht auf Planeten, Galaxien, weisse Zwerge und schwarze Löcher, den Urknall und die Suche nach ausserirdischem intelligenten Leben ein und stellt Forscher, insbesondere Forscherinnen, auf dem Gebiet vor. Die

verständlichen, aber anspruchsvollen, Sachtexte werden ergänzt durch Zusatzdetails in Infoblöcken, Legenden und Gedichte.

Date 2021
Language de
Short Title Das Weltall
Library Catalog Panel on Planetary Thinking
Call Number 009 US 3460 G166
Place Hamburg
Publisher Carlsen
ISBN 978-3-551-25077-3
Edition 1. Aufl
of Pages 216
Date Added 1/15/2023, 3:00:31 PM
Modified 1/18/2023, 3:43:37 PM

Tags:

Popular Science, Astrophysics, Cosmos, OUTER SPACE

Attachments

- Table of Contents PDF

Design for a living planet: the earth constitution solution

Type Book
Author Glen T. Martin
Author Laura M. George
Author Ellen H. Brown
Abstract "The Earth Federation Movement is growing because most people understand that global problems cannot be solved at the nation-state level. Climate change, wealth inequality, and war are just a few of the problems that must be addressed on a planetary basis using Systems Theory and the principle of Holism. The Earth Constitution is a holarchical and unifying system to guide this next phase of human evolution. It will allow humanity to coordinate a response to the climate crisis and other global problems. Simultaneously, it will help humanity adopt a planetary consciousness as World Citizens. Design for a Living Planet promotes five fundamental steps to ensure our survival and the flourishing of our precious planet: (i) transformation to holistic thinking; (ii) conversion to non-growth sustainable economics; (iii) making climate science the central policy issue to protect Earth's biosphere; (iv) promotion of moral and spiritual growth to planetary consciousness; and (v) giving Earth a "brain" by actualizing the Noosphere and creating democratic world government under the Earth Constitution"--
Date 2021
Language en

Short Title Design for a living planet
Library Catalog Panel on Planetary Thinking
Call Number 009 MK 4050 M381
Place Independence
Publisher Peace Pentagon Press
ISBN 978-1-937465-28-5
of Pages 319
Date Added 1/15/2023, 2:49:17 PM
Modified 1/18/2023, 3:43:41 PM

Tags:

Sociology, Political Theory, International Politics, OUTER SPACE

Dr. Space: the life of Wernher von Braun

Type Book
Author Bob Ward
Author Wernher Von Braun
Author John Glenn
Date 2009
Language en
Short Title Dr. Space
Library Catalog Panel on Planetary Thinking
Call Number 009 ZO 8050 W262
Place Annapolis, Maryland
Publisher Naval Institute Press
ISBN 978-1-59114-927-9
Edition First paperback edition, Impression 2
of Pages 282
Date Added 1/15/2023, 3:44:55 PM
Modified 1/18/2023, 3:43:52 PM

Tags:

History, OUTER SPACE

Notes:

Hier auch später erschienene, unveränderte Nachdrucke Literaturverzeichnis: Seite 269-271. - Index

Dunkle Materie: das große Rätsel der Kosmologie

Type Book
Author Sibylle Anderl
Date 2022
Language de
Short Title Dunkle Materie
Library Catalog Panel on Planetary Thinking
Call Number 009 US 2200 A543
Place München
Publisher C.H. Beck
ISBN 978-3-406-78360-9
Series C.H. Beck Wissen
Series Number 2934
Edition Originalausgabe
of Pages 128
Date Added 1/15/2023, 2:53:35 PM
Modified 1/18/2023, 3:43:56 PM

Tags:

Popular Science, Dark Matter, Physics, OUTER SPACE

Notes:

Literaturverzeichnis: Seite 122-128

Attachments

- Table of Contents PDF

Expanding universe: photographs from the Hubble Space Telescope

Type Book
Editor Owen Edwards
Editor Zoltan Levay
Editor Charles Bolden
Editor John Mace Grunsfield
Abstract "With investigations into everything from black holes to exoplanets, the Hubble Telescope has changed not only the face of astronomy but also our very sense of being in the universe. On the 30th anniversary of its launch into low-earth orbit, this updated edition presents 30 brand new images, unveiling more hidden gems from the Hubble's archives. Ultra-high resolution and taken with almost no background light, these pictures have answered some of the most compelling questions of time and space while also revealing new mysteries, like the strange "dark energy" that sees the universe expanding at an ever-accelerating rate"--

Date 2020
Language eng fre ger
Short Title Expanding universe
Library Catalog Panel on Planetary Thinking
Call Number 009 US 3460 L656
Extra OCLC: on1174879745
Place Cologne
Publisher Taschen
ISBN 978-3-8365-8363-3
of Pages 255
Date Added 1/15/2023, 2:54:58 PM
Modified 1/18/2023, 3:44:04 PM

Tags:

Solar system, Espace extra-atmosphérique, Pictorial works, astronomical photography, Astronomical photography, Galaxies, Hubble Space Telescope (Spacecraft), Ouvrages illustrés, Photographie astronomique, Space astronomy, Système solaire, OUTER SPACE

Notes:

Introductory statement -- The color of chaos -- The Solar System -- The Milky Way -- Neighboring galaxies -- The local supercluster -- The visible universe -- Concluding statement -- We are all starstuff -- Photo index

Previous edition: 2015

Extreme Space Weather

Type Book
Editor Ryuho Kataoka
Abstract Extreme Space Weather not only allows readers to learn the basics of complex space weather phenomena and future directions for research in space physics and extreme space events. The book begins with a brief overview of space weather, including sunspot cycles, solar winds and geomagnetic fields. From there, the book moves on to extreme space weather phenomena, including mass coronal ejections, solar flares and magnetic storms. The book also includes a discussion of both observed and theoretical extreme events. This book is ideal for students and researchers in geophysics and space physics departments, as well as those in hazard and disaster preparedness.
Date 2022
Language en
Library Catalog Panel on Planetary Thinking
Call Number 009 US 9000 K19

Place Amsterdam
Publisher Elsevier
ISBN 978-0-12-822537-0
of Pages 300
Date Added 1/15/2023, 3:23:43 PM
Modified 1/18/2023, 3:44:07 PM

Tags:

Weather, Space Physics, OUTER SPACE

Impact: how rocks from space led to life, culture, and Donkey Kong

Type Book

Author Greg Brennecka

Abstract A Short History of Nearly Everything meets Astrophysics for People in a Hurry in this humorous, accessible exploration of how meteorites have helped not only build our planet but steered the evolution of life and human culture. The Solar System. Dinosaurs. Donkey Kong. What is the missing link? Surprisingly enough, it's meteorites. They explain our past, constructed our present, and could define our future. Impact argues that Earth would be a lifeless, inhospitable piece of rock without being fortuitously assaulted with meteorites throughout the history of the planet. These bombardments transformed Earth's early atmosphere and delivered the complex organic molecules that allowed life to develop on our planet. While meteorites have provided the raw materials for life to thrive, they have radically devastated life as well, most famously killing off the dinosaurs and paving the way for humans to evolve to where we are today. As noted meteoriticist Greg Brennecka explains, meteorites did not just set us on the path to becoming human, they helped direct the development of human culture. Meteorites have influenced humanity since the start of civilization. Over the centuries, meteorite falls and other cosmic cinema have started (and stopped) wars, terrified millions, and inspired religions throughout the world. With humor and an infectious enthusiasm, Brennecka reveals previously untold but important stories sure to delight and inform readers about the most important rocks on Earth.

Date 2022

Language en

Short Title Impact

Library Catalog Panel on Planetary Thinking

Call Number 009 US 8900 B838

Place New York

Publisher William Morrow

ISBN 978-0-06-307892-5

Edition First edition

of Pages 292

Date Added 1/15/2023, 3:19:18 PM

Modified 1/18/2023, 3:44:10 PM

Tags:

Geology, Popular Science, Astronomy, OUTER SPACE

Attachments

- Table of Contents PDF

Into the anthropocosmos: a whole space catalog from the MIT Space Exploration Initiative

Type Book

Author Ariel Ekblaw

Author Cady Coleman

Author Sands Fish

Abstract "Inspired by the "Whole Earth Catalog," this book features 40 flight-tested prototypes of futuristic objects developed through research funded by MIT Space Exploration Initiative. It includes never-before-seen images of these objects in microgravity and on the International Space Station"--

Date 2021

Language en

Short Title Into the anthropocosmos

Library Catalog Panel on Planetary Thinking

Call Number 009 ZO 8000 E36

Place Cambridge

Publisher The MIT Press

ISBN 978-0-262-04637-4

of Pages 116

Date Added 1/15/2023, 3:31:24 PM

Modified 1/18/2023, 3:44:19 PM

Tags:

Technological innovations, Outer space, Exploration Technological innovations, Life support systems (Space environment), Massachusetts Institute of Technology, Reduced gravity environments, Space biology, Space Exploration Initiative, OUTER SPACE

Notes:

Biome -- Envirome -- Exobiome -- Experiments, orbits, and exhibitions -- Outreach and community -- Research publications

Living with tiny aliens: the image of God for the anthropocene

Type Book
Author Adam Pryor
Abstract "Living with Tiny Aliens imagines in theological terms how an individuals' meaningful existence persists within a cosmos pregnant with living-possibilities. In doing so, it works to articulate an astrobiological humanities"--
Date 2020
Language en
Short Title Living with tiny aliens
Library Catalog Panel on Planetary Thinking
Call Number 009 US 9800 P973
Place New York
Publisher Fordham University Press
ISBN 978-0-8232-8831-1 978-0-8232-8771-0
Series Groundworks: ecological issues in philosophy and theology
of Pages 269
Date Added 1/15/2023, 3:27:57 PM
Modified 1/18/2023, 3:44:22 PM

Tags:

Religious aspects, Exobiology, Theological anthropology, OUTER SPACE

Notes:

Minimal Level Cataloging Plus

Meteorite: how stones from outer space made our world

Type Book
Author Tim Gregory
Abstract Meteorites have long been seen as portents of fate and messages from the gods, their fiery remains inspiring worship and giving rise to legends that have persisted for millennia. But beyond the lore, meteorites tell an even greater story: that of our solar system. In *Meteorite*, geologist Tim Gregory shows that beneath the charred crusts of these celestial stones lies a staggering diversity of rock types. Their unique constituents, vibrant colors, and pungent smells contain thrilling tales of interstellar clouds, condensing stardust, and the fiery collisions of entire worlds. Gregory explores the world of meteorites to uncover new insights into what our solar system was like before our Sun became a star, into the forging of our planet, and into the emergence of life on it. Humans have long looked to the skies for answers to big questions. *Meteorite* reveals how science is finally arriving at those answers.

Date 2020
Language en
Short Title Meteorite
Library Catalog Panel on Planetary Thinking
Call Number 009 US 8900 G823
Place London
Publisher John Murray
ISBN 978-1-5293-2766-3
of Pages 306
Date Added 1/15/2023, 3:21:41 PM
Modified 1/18/2023, 3:44:26 PM

Tags:

Geology, Popular Science, OUTER SPACE

Space forces: a critical history of life in outer space

Type Book
Author Fred Scharmen
Abstract "Many societies have imagined going to live in space. What they want to do once they get up there - whether conquering the unknown, establishing space "colonies," privatising the moon's resources - reveals more than expected. In this fascinating radical history of space exploration, Fred Scharmen shows that often science and fiction have combined in the imagined dreams of life in outer space, but these visions have real implications for life back on earth. For the Russian Cosmists of the 1890s space was a place to pursue human perfection away from the Earth. For others, such as Wernher Von Braun, it was an engineering task that combined, in the Space Race, the Cold War, and during World War II, with destructive geopolitics. Arthur C Clark in his speculative books offered an alternative vision of wonder that is indifferent to human interaction. Meanwhile NASA planned and managed the space station like an earthbound corporation. Today, the market has arrived into outer space and exploration is the plaything of superrich technology billionaires, who plan to privatise the mineral wealth for themselves. Are other worlds really possible? Bringing these figures and ideas together reveals a completely different story of our relationship with outer space, as well as the dangers of our current direction of extractive capitalism and colonisation"--
Date 2021
Language en
Short Title Space forces
Library Catalog Panel on Planetary Thinking
Call Number 009 ZO 8000 S311
Place Brooklyn
Publisher Verso Books
ISBN 978-1-78663-735-2

of Pages 266**Date Added** 1/15/2023, 3:36:26 PM**Modified** 1/18/2023, 3:44:29 PM**Tags:**

History of Space Exploration, OUTER SPACE

Spacefarers: how humans will settle the Moon, Mars, and beyond**Type** Book**Author** Christopher Wanjek

Abstract "More than fifty years after the Apollo 11 moon landing, why is there so little human presence in space? Will we ever reach Mars? What will it take to become a multiplanet species, colonizing the solar system and traveling to other stars? Spacefarers meets these questions head on. While many books have speculated on the possibility of living beyond the Earth, few have delved into the practical challenges or plausible motives for leaving the safe confines of our home planet. Christopher Wanjek argues that there is little doubt we will be returning to the Moon and exploring Mars in the coming decades, given the potential scientific and commercial bonanza. Private industry is already taking a leading role and earning profits from human space activity. This can be, Wanjek suggests, a sustainable venture and a natural extension of earthbound science, business, and leisure. He envisions hoteling in low-earth orbit and mining, tourism, and science on the Moon. He also proposes the slow, steady development of science bases on Mars, to be followed by settlements if Martian gravity will permit reproduction and healthy child development. An appetite for wonder will take us far, but if we really want to settle new worlds, we'll need the earnest plans of engineers, scientists, and entrepreneurs. Wanjek introduces us to those planners, who are striving right now to make life in space a reality"--

Date 2020**Language** en**Short Title** Spacefarers**Library Catalog** Panel on Planetary Thinking**Call Number** 009 ZO 8000 W247**Place** Cambridge, Massachusetts**Publisher** Harvard University Press**ISBN** 978-0-674-98448-6**# of Pages** 389**Date Added** 1/15/2023, 3:39:07 PM**Modified** 1/18/2023, 3:44:32 PM**Tags:**

Interplanetary voyages, Astronautics and civilization, Exploration, OUTER SPACE

Notes:

Introduction: Pre-launch -- Living on earth -- Check up before count down -- Living in orbit -- Living on the Moon -- Living on asteroids -- Living on Mars -- Living in the inner and outer solar system and beyond -- Epilogue: Welcome home

Terraforming Mars**Type** Book**Editor** Martin Beech**Editor** Joseph Seckbach**Editor** Richard Gordon

Abstract TERRAFORMING MARS This book provides a thorough scientific review of how Mars might eventually be colonized, industrialized, and transformed into a world better suited to human habitation. The idea of terraforming Mars has, in recent times, become a topic of intense scientific interest and great public debate. Stimulated in part by the contemporary imperative to begin geoengineering Earth, as a means to combat global climate change, the terraforming of Mars will work to make its presently hostile environment more suitable to life—especially human life. Geoengineering and terraforming, at their core, have the same goal—that is to enhance (or revive) the ability of a specific environment to support human life, society, and industry. The chapters in this text, written by experts in their respective fields, are accordingly in resonance with the important, and ongoing discussions concerning the human stewardship of global climate systems. In this sense, the text is both timely and relevant and will cover issues relating to topics that will only grow in their relevance in future decades. The notion of terraforming Mars is not a new one, as such, and it has long played as the background narrative in many science fiction novels. This book, however, deals exclusively with what is physically possible, and what might conceivably be put into actual practice within the next several human generations.

Date 2022**Language** en**Library Catalog** Panel on Planetary Thinking**Call Number** 009 US 8400 B414**Place** Hoboken**Publisher** Wiley-Scrivener**ISBN** 978-1-119-76196-9**Series** Astrobiology perspectives on life in the universe**# of Pages** 566**Date Added** 1/15/2023, 3:11:37 PM**Modified** 1/18/2023, 3:44:36 PM**Tags:**

Ethics, Astronomy, Astrophysics, Astrobiology, Space Engineering, Space Travel Engineering, OUTER SPACE

Attachments

- Table of Contents PDF

The disordered cosmos: a journey into dark matter, spacetime, and dreams deferred

Type Book
Author Chanda Prescod-Weinstein
Abstract From a star theoretical physicist, a journey into the world of particle physics and the cosmos--and a call for a more just practice of science
Date 2022
Language en
Short Title The disordered cosmos
Library Catalog Panel on Planetary Thinking
Call Number 009 US 1000 P928
Extra OCLC: 1267751574
Place New York
Publisher Bold Type Books
ISBN 978-1-5417-2468-6
Edition First trade paperback edition
of Pages 332
Date Added 1/15/2023, 2:52:14 PM
Modified 1/18/2023, 3:44:39 PM

Tags:

Popular Science, Astrophysics, OUTER SPACE

The end of astronauts: why robots are the future of exploration

Type Book
Author Donald Goldsmith
Author Martin J. Rees
Abstract "Governments, companies, and private investors spend billions on astronaut-dependent space travel, but the work is dangerous and unhealthy to human bodies--so that executing missions may simply not be worth the cost. The future will be one of robots, heirs to the Perseverance rover on Mars, equipped with artificial intelligence and capable of autonomous exploration"--
Date 2022

Language en
Short Title The end of astronauts
Library Catalog Panel on Planetary Thinking
Call Number 009 ZO 8200 G624
Place Cambridge, Massachusetts
Publisher The Belknap Press of Harvard University Press
ISBN 978-0-674-25772-6
of Pages 185
Date Added 1/15/2023, 3:48:09 PM
Modified 1/18/2023, 3:44:42 PM

Tags:

United States, Exploration, Space robotics, OUTER SPACE

Notes:

Introduction: From fireworks to spaceflight -- Why explore? -- Organizing space -- Near-earth orbit -- The moon -- Mars -- Asteroids -- Space colonization -- Costs and prospects of space exploration -- Space law -- Epilogue: Perspectives on space exploration in 2040-and far beyond

The great silence: the science and philosophy of Fermi's paradox

Type Book
Author Milan M. Ćirković
Abstract Researchers believe that the universe is vast enough that life has evolved and become technological many times, - yet we have seen no trace of extraterrestrial intelligence. This conundrum, known as the Fermi paradox, is the deepest mystery in the search for extraterrestrial intelligence. Put simply, where is everybody?--
Date 2018
Language en
Short Title The great silence
Library Catalog Panel on Planetary Thinking
Call Number 009 US 9800 C578
Extra OCLC: on1005112701
Place Oxford, United Kingdom
Publisher Oxford University Press
ISBN 978-0-19-964630-2
Edition First edition
of Pages 395
Date Added 1/15/2023, 3:26:44 PM
Modified 1/18/2023, 3:44:45 PM

Tags:

Life on other planets, Fermi's paradox, OUTER SPACE

The History of Space Weather: From Babylon to the 21st century

Type Book
Author Sten Odenwald
Date 2021
Language en
Short Title The History of Space Weather
Library Catalog Panel on Planetary Thinking
Call Number 009 US 6700 O23
Publisher self-published
ISBN 9798780738664
Date Added 1/15/2023, 3:06:11 PM
Modified 1/18/2023, 3:44:53 PM

Tags:

Weather, Astronomy, History of Outer Space, OUTER SPACE

The Mars project

Type Book
Author Wernher Von Braun
Date 1991
Language en
Library Catalog Panel on Planetary Thinking
Call Number 009 ZO 8500 V945
Place Urbana
Publisher University of Illinois Press
ISBN 978-0-252-06227-8
Edition Illini books ed
of Pages 91
Date Added 1/15/2023, 3:49:20 PM
Modified 1/18/2023, 3:44:57 PM

Tags:

Space flight to Mars, Space ships, OUTER SPACE

Notes:

Translation of: Das Mars project Reprint. Originally published: Urbana : University of Illinois Press, 1953 "An Illini book from the University of Illinois Press"--P. [4] of cover

The overview effect: space exploration and human evolution

Type Book
Author Frank White
Date 2014
Language en
Short Title The overview effect
Library Catalog Panel on Planetary Thinking
Call Number 009 ZO 8050 W584
Place Reston, Virginia
Publisher American Institute of Aeronautics and Astronautics, Inc
ISBN 978-1-62410-262-2
Series Library of flight
Edition Third edition
of Pages 342
Date Added 1/15/2023, 3:46:09 PM
Modified 1/18/2023, 3:45:00 PM

Tags:

Astronautics and civilization, Exploration, OUTER SPACE

The planets

Type Book
Author Andrew Cohen
Author Brian Cox
Abstract Mercury, a lifeless victim of the Sun's expanding power. Venus, once thought to be lush and fertile, now known to be trapped within a toxic and boiling atmosphere. Mars, the red planet, doomed by the loss of its atmosphere. Jupiter, twice the size of all the other planets combined, but insubstantial. Saturn, a stunning celestial beauty, the jewel of our Solar System. Uranus, the sideways planet and the first ice giant. Neptune, dark, cold and whipped by supersonic winds. Pluto, the dwarf planet, a frozen rock. Andrew Cohen and Professor Brian Cox take readers on a voyage of discovery, from the fiery heart of our Solar System, to its mysterious outer reaches. They touch on the latest discoveries that have expanded our knowledge of the planets, their moons and how they come to be, alongside recent stunning and mind-boggling NASA photography
Date 2020

Language en
Library Catalog Panel on Planetary Thinking
Call Number 009 US 8000 C678
Extra OCLC: 1148063153
Place London
Publisher William Collins
ISBN 978-0-00-828057-4
Edition William Collins paperback edition
of Pages 301
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Tags:

Popular Science, Planets, OUTER SPACE

The Smithsonian history of space exploration: from the ancient world to the extraterrestrial future

Type Book
Author Roger D. Launius
Date 2018
Language en
Short Title The Smithsonian history of space exploration
Library Catalog Panel on Planetary Thinking
Call Number 009 ZO 8050 L376
Place Washington, DC
Publisher Smithsonian Books
ISBN 978-1-58834-637-7
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Tags:

History, Astronautics, Exploration History, Manned space flight, Space flight to Mars, OUTER SPACE

Notes:

Laying the foundations for space exploration -- World War II paves the way for space exploration -- Making space exploration real -- The space age dawns -- The race to the moon -- New nations, new missions -- Space planes and orbital stations -- The lure of the Red Planet -- Beyond Mars -- Transterrestrial expectations

Universe: the definitive visual guide

Type Book

Abstract Unrivalled in its breadth, Universe explores every aspect of the cosmos, from the big bang to planets in our solar system and beyond --

Date 2020

Language en

Short Title Universe

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Astronomy, Cosmology, Popular works, Universe, OUTER SPACE

Notes:

Includes Index

What is the universe? -- The beginning and the end of the universe -- The view from Earth -- The solar system -- The Milky Way -- Beyond the Milky Way -- The constellations -- Monthly sky guide