

THE LAST FRONTIER

IMAGINING
OTHER WORLDS
FROM THE
COPERNICAN
REVOLUTION
TO MODERN
SCIENCE FICTION

KARL S. GUTHKE

The Last Frontier Imagining Other Worlds From The Copernican Revolution To Modern Science Fiction

Douglas A. Vakoch



The Last Frontier Imagining Other Worlds From The Copernican Revolution To Modern Science Fiction:

The Last Frontier Karl S. Guthke, 2019-05-15 The existence of intelligent extraterrestrial life has been a subject of debate since the dawn of recorded history *The Last Frontier* originally published in German in 1983 and now available in Helen Atkins's sensitive English translation traces the development of the idea that Earth is not the only planet inhabited by intelligent beings but that there might be a plurality or even an infinity of worlds with human or humanoid life Focusing on the seventeenth to the twentieth century and taking into account theological philosophical scientific popular and literary writings from American British French and German sources Karl S Guthke demonstrates the continuing importance of this question to the process of human self definition **The Last Frontier** Karl Siegfried Guthke, 1990 [The Last Frontier](#)

Karl S. Guthke, 1990-11-01 This book originally published in Germany in 1983 is a brilliant and detailed thematic study of one of the most haunting problems mankind has ever considered Are we alone in the universe The book traces the development of the idea that Earth is not the only planet inhabited by intelligent beings but that there might be a plurality or even an infinity of worlds with human or humanoid life Focusing on the period from the 17th to the 20th centuries and taking into account theological philosophical scientific popular and literary writings from American British French and German sources Karl S Guthke demonstrates the continuing importance of this question to the process of human self definition An engaging lucid adventure in the history of ideas [The Way of Nature and the Way of Grace](#) Vernon W. Cisney, Jonathan

Beever, 2016-06-15 Amid all the controversy criticism and celebration of Terrence Malick's award winning film *The Tree of Life* what do we really understand of it *The Way of Nature and the Way of Grace* thoughtfully engages the philosophical riches of life culture time and the sacred through Malick's film This innovative collection traverses the relationships among ontological moral scientific and spiritual perspectives on the world demonstrating how phenomenological work can be done in and through the cinematic medium and attempting to bridge the gap between narrow theoretical works on film and their broader cultural and philosophical significance Exploring Malick's film as a philosophical engagement this readable and insightful collection presents an excellent resource for film specialists philosophers of film and film lovers alike [Exploring the Origin, Extent, and Future of Life](#) Constance M. Bertka, 2009-09-03 Where did we come from Are we alone Where are we

going These are the questions that define the field of astrobiology New discoveries about life on Earth the increasing numbers of extrasolar planets being identified and the technologies being developed to locate and characterize Earth like planets around other stars are continually challenging our views of nature and our connection to the rest of the universe In this book philosophers historians ethicists and theologians provide the perspectives of their fields on the research and discoveries of astrobiology A valuable resource for graduate students and researchers the book provides an introduction to astrobiology and explores subjects such as the implications of current origin of life research the possible discovery of extraterrestrial microbial life and the possibility of altering the environment of Mars [Astrobiology, Discovery, and](#)

Societal Impact Steven J. Dick, 2018-05-03 The search for life in the universe once the stuff of science fiction is now a robust worldwide research program with a well defined roadmap probing both scientific and societal issues This volume examines the humanistic aspects of astrobiology systematically discussing the approaches critical issues and implications of discovering life beyond Earth What do the concepts of life and intelligence culture and civilization technology and communication mean in a cosmic context What are the theological and philosophical implications if we find life and if we do not Steven J Dick argues that given recent scientific findings the discovery of life in some form beyond Earth is likely and so we need to study the possible impacts of such a discovery and formulate policies to deal with them The remarkable and often surprising results are presented here in a form accessible to disciplines across the sciences social sciences and humanities

Kim Stanley Robinson Robert Markley, 2019-10-30 Award winning epics like the Mars Trilogy and groundbreaking alternative histories like The Days of Rice and Salt have brought Kim Stanley Robinson to the forefront of contemporary science fiction Mixing subject matter from a dizzying number of fields with his own complex ecological and philosophical concerns Robinson explores how humanity might pursue utopian social action as a strategy for its own survival Robert Markley examines the works of an author engaged with the fundamental question of how we as individuals as a civilization and as a species might go forward By building stories on huge time scales Robinson lays out the scientific and human processes that fuel humanity's struggle toward a more just and environmentally stable world or system of worlds His works invite readers to contemplate how to achieve and live in these numerous possible futures They also challenge us to see that SF's literary cultural and philosophical significance have made it the preeminent literary genre for examining where we stand today in human and planetary history

Science, Religion, and the Search for Extraterrestrial Intelligence David Wilkinson, 2013-08-02 If the discovery of life elsewhere in the universe is just around the corner what would be the consequences for religion Would it represent another major conflict between science and religion even leading to the death of faith Some would suggest that the discovery of any suggestion of extraterrestrial life would have a greater impact than even the Copernican and Darwinian revolutions It is now over 50 years since the first modern scientific papers were published on the search for extraterrestrial intelligence SETI Yet the religious implications of this search and possible discovery have never been systematically addressed in the scientific or theological arena SETI is now entering its most important era of scientific development New observation techniques are leading to the discovery of extra solar planets daily and the Kepler mission has already collected over 1000 planetary candidates This deluge of data is transforming the scientific and popular view of the existence of extraterrestrial intelligence Earth like planets outside of our solar system can now be identified and searched for signs of life Now is a crucial time to assess the scientific and theological questions behind this search This book sets out the scientific arguments undergirding SETI with particular attention to the uncertainties in arguments and the strength of the data already assembled It assesses not only the discovery of planets but other areas such

as the Fermi paradox the origin and evolution of intelligent life and current SETI strategies In all of this it reflects on how these questions are shaped by history and pop culture and their relationship with religion especially Christian theology It is argued that theologians need to take seriously SETI and to examine some central doctrines such as creation incarnation revelation and salvation in the light of the possibility of extraterrestrial life The Planet-Girded Suns: Our Forebears' Firm Belief in Inhabited Exoplanets Sylvia Engdahl, 2012-06-01 Interest in exoplanets the worlds of other stars is not new From the late 17th century until the end of the 19th almost all educated people believed that the stars are suns surrounded by inhabited planets a belief that was expressed not in science fiction but in serious speculation both scientific and religious as well as in poetry Only during the first half of the 20th century was it thought that life bearing exoplanets are rare This is not a science book rather it belongs to the category known as History of Ideas First published by Atheneum in 1974 it tells the story of the rise fall and eventual renewal of widespread conviction that we are not alone in the universe In this 2012 updated edition the chapters dealing with modern speculation have been revised to reflect the progress science has made during the past 40 years including the actual detection of planets orbiting other stars However it is not intended to be more than a brief introduction to today's views its focus is on little known facts about those of the past Why should we care what our forebears believed Now the question of ET life is a matter for investigation by science Yet it's significant that most educated people of past centuries were convinced that other inhabited worlds exist without any scientific evidence whatsoever This historical fact reveals that human beings have an instinctive sense of kinship with the wider universe and a desire to see the realms that lie beyond this one small planet and perhaps eventually to go there Our ancestors conceived of such voyages only in a spiritual sense as occurring after death But we who have taken our first small steps into space are aware that our descendants may set foot on the worlds of other suns Just as in the 17th century people were initially upset by the new knowledge that the stars are suns scattered in space rather than lights fixed to a nearby sphere the growing awareness that Earth is not safely isolated from whatever lies beyond makes many of our contemporaries uneasy Thus today's predominant feelings about spaceships are ambivalent Nevertheless if an impulse toward belief that we are not alone in the universe is indeed an innate characteristic of human beings as the past spread of belief in inhabited exoplanets suggests we can be sure that those who follow us will not turn back from becoming spacefarers *Space, Time, and Aliens* Steven J. Dick, 2020-05-11 In this comprehensive and interdisciplinary volume former NASA Chief Historian Steven Dick reflects on the exploration of space astrobiology and its implications cosmic evolution astronomical institutions discovering and classifying the cosmos and the philosophy of astronomy The unifying theme of the book is the connection between cosmos and culture or what Carl Sagan many years ago called the cosmic connection As both an astronomer and historian of science Dr Dick has been both a witness to and a participant in many of the astronomical events of the last half century This collection of papers presents his reflections over the last forty years in a way accessible to historians philosophers and scientists alike From the

search for alien life to ongoing space exploration efforts readers will find this volume full of engaging topics relevant to science society and our collective future on planet Earth and beyond **The Drake Equation** Douglas A. Vakoch,Matthew F. Dowd,2015-07-02 Leading scientists and historians explore the equation that guides modern astrobiology s search for life beyond Earth *Communication with Extraterrestrial Intelligence (CETI)* Douglas A. Vakoch,2011-04-01 In April 2010 fifty years to the month after the first experiment in the Search for Extraterrestrial Intelligence SETI scholars from a range of disciplines including astronomy mathematics anthropology history and cognitive science gathered at NASA s biennial Astrobiology Science Conference AbSciCon for a series of sessions on the search for intelligent life This book highlights the most recent developments in SETI discussed at that conference emphasizing the ways that SETI has grown since its inception The volume covers three broad themes First leading researchers examine the latest developments in observational SETI programs as well as innovative proposals for new search strategies and novel approaches to signal processing Second both proponents and opponents of Active SETI debate whether humankind should be transmitting intentional signals to other possible civilizations rather than only listening Third constructive proposals for interstellar messages are juxtaposed with critiques that ask whether any meaningful exchange is possible with an independently evolved civilization given the constraints of contact at interstellar distances where a round trip exchange could take centuries or millennia As we reflect on a half century of SETI research we are reminded of the expansion of search programs made possible by technological and conceptual advances In this spirit of ongoing exploration the contributors to this book advocate a diverse range of approaches to make SETI increasingly more powerful and effective as we embark on the next half century of searching for intelligence beyond Earth **Dark Skies** Daniel Deudney,2020-03-02 Dark Skies provides the first comprehensive and balanced assessment of the space enterprise past present and future It demolishes widely held optimistic assumptions about the desirability of many major space activities actual and prospective Most consequentially the hiding in plain sight use of outer space as a corridor for long range bombardment has increased the probability of catastrophic nuclear war Contrary to the widespread claim that sustainable colonies on other celestial bodies are necessary for human survival from large scale disasters on Earth Dark Skies shows that colonization itself poses many severe threats and should be avoided Instead an Earth oriented space program should be pursued *The New Astronomy: Opening the Electromagnetic Window and Expanding our View of Planet Earth* Wayne Orchiston,2006-01-17 This is an unusual book combining as it does papers on astrobiology history of astronomy and sundials but after all Woody Sullivan is an unusual man In late 2003 I spent two fruitful and enjoyable months in the Astronomy Department at the University of Washington UW working on archival material accumulated over the decades by Woody for a book we will co author with Jessica Chapman on the early development of Australian astronomy The only serious intellectual distraction I faced during this period was planning for an IAU colloquium on transits of Venus scheduled for June 2004 in England where I was down to present the Cook paper I knew Woody was also

interested in transits and indeed anything remotely connected with shadows see his paper on page 3 and in discussing the Preston meeting with him it transpired that his 60th birthday was timed to occur just one week later This was where the seed of Woodfest began to germinate Why not invite friends and colleagues to join Woody in Seattle and celebrate this proud event I put the idea to Woody and others at UW they liked it and Woodfest was born Planets and Life Woodruff T. Sullivan, III, John Baross, 2007-09-13 Astrobiology involves the study of the origin and history of life on Earth planets and moons where life may have arisen and the search for extraterrestrial life It combines the sciences of biology chemistry palaeontology geology planetary physics and astronomy This textbook brings together world experts in each of these disciplines to provide the most comprehensive coverage of the field currently available Topics cover the origin and evolution of life on Earth the geological physical and chemical conditions in which life might arise and the detection of extraterrestrial life on other planets and moons The book also covers the history of our ideas on extraterrestrial life and the origin of life as well as the ethical philosophical and educational issues raised by astrobiology Written to be accessible to students from diverse backgrounds this text will be welcomed by advanced undergraduates and graduates who are taking astrobiology courses Postcultural Theory E. Bannet, 1993-04-20 The world of literary theory and criticism is once again at a crossroads While much of the academy has been absorbing and institutionalizing that unstable mixture of poststructuralism deconstruction political critique and materialist historicism which is known as Cultural Theory some people have been working up alternative theories This book is about some of these less familiar Postcultural theories and about the ways in which they challenge current thinking and open other positive and constructive possibilities for thought and research in the nineties Starstruck Albert A. Harrison, 2007 We live in an era of exploding scientific knowledge about the universe and our place and future within it Much of this new knowledge conflicts with earlier wisdom and some has frightening implications Cosmic evolution space exploration the search for extraterrestrial life and concerns about humanity's future prompt us to seek new answers to old existential questions Where did we come from Why are we here Are we alone What will become of us In our search for answers we turn to science religion myth and varying combinations thereof Exploring an ambiguous region between recognized findings and unfettered imagination Starstruck explores the multifaceted far reaching and often contentious attempts of people with contrasting worldviews to develop convincing and satisfying interpretations of rapidly accumulating discoveries in physics astronomy and biology **News from Mars** Joshua Nall, 2019-08-13 Mass media in the late nineteenth century was full of news from Mars In the wake of Giovanni Schiaparelli's 1877 discovery of enigmatic dark straight lines on the red planet astronomers and the public at large vigorously debated the possibility that it might be inhabited As rivaling scientific practitioners looked to marshal allies and sway public opinion through newspapers periodicals popular books exhibitions and encyclopaedias they exposed disagreements over how the discipline of astronomy should be organized and how it should establish acceptable conventions of discourse News from Mars provides a new

account of this extraordinary episode in the history of astronomy revealing how major transformations in astronomical practice across Britain and America were inextricably tied up with popular scientific culture and a transatlantic news economy that enabled knowledge to travel As Joshua Nall argues astronomers were journalists too eliding practice with communication in consequential ways As writers and editors they played a pivotal role in the emergence of a new astronomy dedicated to the study of the physical constitution and life history of celestial objects blurring harsh distinctions between those who produced esoteric knowledge and those who disseminated it Cosmology and the Scientific Self in the Nineteenth Century Howard Carlton, 2022-08-03 This book argues that while the historiography of the development of scientific ideas has for some time acknowledged the important influences of socio cultural and material contexts the significant impact of traumatic events life threatening illnesses and other psychotropic stimuli on the development of scientific thought may not have been fully recognised Howard Carlton examines the available primary sources which provide insight into the lives of a number of nineteenth century astronomers theologians and physicists to study the complex interactions within their biocultural brain body systems which drove parallel changes of perspective in theology metaphysics and cosmology In doing so he also explores three topics of great scientific interest during this period the question of the possible existence of life on other planets the deployment of the nebular hypothesis as a theory of cosmogony and the religiously charged debates about the ages of the earth and sun From this body of evidence we gain a greater understanding of the underlying phenomena which actuated intellectual developments in the past and which are still relevant to today s knowledge making processes **Victorian Science and Literature, Part II vol 7** Gowan Dawson, Bernard Lightman, Claire Brock, Marwa Elshakry, Sujit Sivasundaram, Ralph O'Connor, Roger Luckhurst, Justin Sausman, 2024-08-07 This eight volume reset edition in two parts collects rare primary sources on Victorian science literature and culture The sources cover both scientific writing that has an aesthetic component what might be called the literature of science and more overtly literary texts that deal with scientific matters

Unveiling the Magic of Words: A Review of "**The Last Frontier Imagining Other Worlds From The Copernican Revolution To Modern Science Fiction**"

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