

CLASSIC REPRINT SERIES

IS MARS HABITABLE?

A Critical Examination of Professor Percival
Lowell's Book Mars and Its Canals, With an
Alternative Explanation



by
Alfred Russel Wallace

Forgotten Books

Habitable Critical Examination Professor Percival

A Gutmann



Habitable Critical Examination Professor Percival:

Is Mars habitable? A critical examination of Professor Percival Lowell's book "Mars and its canals," with an alternative explanation Alfred Wallace, 2021-01-18 **Is Mars Habitable?** Alfred Russel Wallace, 1907 The special point to which I here wish to call attention is this Mr Lowell's main contention is that the surface of Mars is wonderfully smooth and level Not only are there no mountains but there are no hills or valleys or plateaux This assumption is absolutely essential to support the other great assumption that the wonderful network of perfectly straight lines over nearly the whole surface of the planet are irrigation canals It is not alleged that irregularities or undulations of a few hundreds or even one or two thousands of feet could possibly be detected while certainly all we know of planetary formation or structure point strongly towards some inequalities of surface **Nature** Sir Norman Lockyer, 1924 *Saving the World* Brett M. Bennett, Gregory A. Barton, 2024-07-06 An illuminating history of the forgotten concept of climatic botany that underscores how vital forests are to our future *Saving the World* tells the forgotten history of climatic botany the idea that forests are essential for creating and recycling rain Long before the specter of global warming societies recognized that deforestation caused drastic climate shifts as early as 1770 concerns over deforestation spurred legislation to combat human induced climate change Across the twentieth century climatic botany experienced fluctuating fortunes influenced by technological advancements and evolving meteorological theories Remarkably contemporary scientists are rediscovering the crucial role of forests in rainfall recycling unaware of the long history of climatic botany This enlightening book is essential reading for anyone passionate about conserving the world's forests and preserving our climate for future generations **Imagining Mars** Robert Crossley, 2011-01-03 Mars in the human imagination from the invention of the telescope to the present For centuries the planet Mars has captivated astronomers and inspired writers of all genres Whether imagined as the symbol of the bloody god of war the cradle of an alien species or a possible new home for human civilization our closest planetary neighbor has played a central role in how we think about ourselves in the universe From Galileo to Kim Stanley Robinson Robert Crossley traces the history of our fascination with the red planet as it has evolved in literature both fictional and scientific Crossley focuses specifically on the interplay between scientific discovery and literary invention exploring how writers throughout the ages have tried to assimilate or resist new planetary knowledge Covering texts from the 1600s to the present from the obscure to the classic Crossley shows how writing about Mars has reflected the desires and social controversies of each era This astute and elegant study is perfect for science fiction fans and readers of popular science Is Mars habitable? Alfred Russel Wallace, 2023-08-12 In *Is Mars Habitable* Alfred Russel Wallace embarks on an intriguing exploration of the possibility of life on the Red Planet Published during the late 19th century a period marked by burgeoning scientific inquiry and the dawn of modern evolutionary thought Wallace employs a blend of empirical observation and philosophical speculation His literary style is marked by clarity and logical progression as he systematically examines the implications of atmospheric conditions

potential habitats and the evolutionary viability of Martian organisms By situating his argument within the broader context of natural history and contemporary scientific debates Wallace challenges readers to contemplate not only the existence of extraterrestrial life but also the limits of human understanding in an ever expanding universe Alfred Russel Wallace a renowned naturalist and contemporaneous to Charles Darwin played a pivotal role in developing the theory of evolution through natural selection His extensive travels to the Amazon and the Malay Archipelago introduced him to diverse ecosystems fostering a profound interest in the living conditions required for life This background informs his inquiry into Martian habitability as he deftly navigates the intersections of biology geology and climate science rooted in his deep appreciation for the interconnectedness of life *Is Mars Habitable* is an essential read for enthusiasts of astrobiology evolutionary theory and the historical context of scientific thought Wallace s thought provoking arguments and meticulous approach invite readers to ponder humanity s place in the cosmos while appreciating the challenges of interplanetary exploration This book remains a timeless contribution to the ongoing quest to understand life beyond Earth

Class List
Saint Paul Public Library,1909 **Knowledge...** Edwin Sharpe Grew,Baden Fletcher Smyth Baden-Powell,Arthur Cowper Ranyard,Wilfred Mark Webb,1908

The Great Silence Milan M. Ćirković,2018 Researchers believe that the universe is vast and old enough that life has evolved and become intelligent and technological many times on different worlds 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 This book aims to shed some light on that biggest of questions where is everybody

Science Progress in the Twentieth Century ,1908 **Geographies of Mars** K. Maria D. Lane,2011 This volume explores the origins of our Martian obsession in the late nineteenth century and examines the way turn of the century Americans and Europeans thought about space knowledge and power The author paints a picture of how scientists and the public saw Mars around the beginning of the 20th century when canals on the Red Planet seemed a very real possibility It is a story of mountain observatories of fieldwork conducted at a distance and of how Mars s geographers sought social and scientific legitimacy exploring how astronomy and geography intersected in the debates over the existence of life on Mars **The**

Sirens of Mars Sarah Stewart Johnson,2020-07-07 Sarah Stewart Johnson interweaves her own coming of age story as a planetary scientist with a vivid history of the exploration of Mars in this celebration of human curiosity passion and perseverance Alan Lightman author of *Einstein s Dreams* WINNER OF THE PHI BETA KAPPA AWARD FOR SCIENCE NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review Times UK Library Journal Lovely Johnson s prose swirls with lyrical wonder as varied and multihued as the apricot deserts butterscotch skies and blue sunsets of Mars Anthony Doerr The New York Times Book Review Mars was once similar to Earth but today there are no rivers no lakes no oceans Coated in red dust the terrain is bewilderingly empty And yet multiple spacecraft are circling Mars sweeping over Terra Sabaea Syrtis Major the dunes of Elysium and Mare Sirenum on the brink perhaps of a staggering find one that

would inspire humankind as much as any discovery in the history of modern science In this beautifully observed deeply personal book Georgetown scientist Sarah Stewart Johnson tells the story of how she and other researchers have scoured Mars for signs of life transforming the planet from a distant point of light into a world of its own Johnson s fascination with Mars began as a child in Kentucky turning over rocks with her father and looking at planets in the night sky She now conducts fieldwork in some of Earth s most hostile environments such as the Dry Valleys of Antarctica and the salt flats of Western Australia developing methods for detecting life on other worlds Here with poetic precision she interlaces her own personal journey as a female scientist and a mother with tales of other seekers from Percival Lowell who was convinced that a utopian society existed on Mars to Audouin Dollfus who tried to carry out astronomical observations from a stratospheric balloon In the process she shows how the story of Mars is also a story about Earth This other world has been our mirror our foil a telltale reflection of our own anxieties and yearnings Empathetic and evocative *The Sirens of Mars* offers an unlikely natural history of a place where no human has ever set foot while providing a vivid portrait of our quest to defy our isolation in the cosmos

The Oxford Handbook of Science Fiction Rob Latham,2014 The Oxford Handbook of Science Fiction attempts to descry the historical and cultural contours of SF in the wake of technoculture studies Rather than treating the genre as an isolated aesthetic formation it examines SF s many lines of cross pollination with technocultural realities since its inception in the nineteenth century showing how SF s unique history and subcultural identity has been constructed in ongoing dialogue with popular discourses of science and technology The volume consists of four broadly themed sections each divided into eleven chapters Section I Science Fiction as Genre considers the internal history of SF literature examining its characteristic aesthetic and ideological modalities its animating social and commercial institutions and its relationship to other fantastic genres Section II Science Fiction as Medium presents a more diverse and ramified understanding of what constitutes the field as a mode of artistic and pop cultural expression canvassing extra literary manifestations of SF ranging from film and television to videogames and hypertext to music and theme parks Section III Science Fiction as Culture examines the genre in relation to cultural issues and contexts that have influenced it and been influenced by it in turn the goal being to see how SF has helped to constitute and define important sub cultural groupings social movements and historical developments during the nineteenth twentieth and twenty first centuries Finally Section IV Science Fiction as Worldview explores SF as a mode of thought and its intersection with other philosophies and large scale perspectives on the world from the Enlightenment to the present day

The Springfield City Library Bulletin ... Springfield City Library Association (Springfield, Mass.),1907 *Springfield City Library Bulletin* Springfield City Library Association (Springfield, Mass.),1907 *Popular Science Monthly* ,1913 **Museum and Archive on the Move** Oliver Grau,2017-09-11 The digital revolution fundamentally changed how cultural heritage is created documented analyzed and preserved The book focuses on this transformation s impact How must museums and archives meet the challenges of digitally generated cultures and how

does the digital revolution influence traditional object collection research and education How do digital technologies and digital art and culture affect our interaction with images Leading international experts from various disciplines break new ground Pioneering interdisciplinary research results collected in this book are relevant to education curators and archivists in the arts and culture sector and in the digital humanities

Dying Planet Robert Markley, 2005-09-08 For more than a century Mars has been at the center of debates about humanity's place in the cosmos Focusing on perceptions of the red planet in scientific works and science fiction *Dying Planet* analyzes the ways Mars has served as a screen onto which humankind has projected both its hopes for the future and its fears of ecological devastation on Earth Robert Markley draws on planetary astronomy the history and cultural study of science science fiction literary and cultural criticism ecology and astrobiology to offer a cross disciplinary investigation of the cultural and scientific dynamics that have kept Mars on front pages since the 1800s Markley interweaves chapters on science and science fiction enabling him to illuminate each arena and to explore the ways their concerns overlap and influence one another He tracks all the major scientific developments from observations through primitive telescopes in the seventeenth century to data returned by the rovers that landed on Mars in 2004 Markley describes how major science fiction writers H G Wells Kim Stanley Robinson Philip K Dick Edgar Rice Burroughs Ray Bradbury Robert Heinlein and Judith Merril responded to new theories and new controversies He also considers representations of Mars in film on the radio and in the popular press In its comprehensive study of both science and science fiction *Dying Planet* reveals how changing conceptions of Mars have had crucial consequences for understanding ecology on Earth

Radical by Nature James T. Costa, 2025-01-07 A major biography of the brilliant naturalist traveler humanitarian and codiscoverer of natural selection Alfred Russel Wallace 1823 1913 was perhaps the most famed naturalist of the Victorian age His expeditions to remote Amazonia and southeast Asia were the stuff of legend A collector of thousands of species new to science he shared in the discovery of natural selection and founded the discipline of evolutionary biogeography *Radical by Nature* tells the story of Wallace's epic life and achievements from his stellar rise from humble origins to his complicated friendship with Charles Darwin and other leading scientific lights of Britain to his devotion to social causes and movements that threatened to alienate him from scientific society James Costa draws on letters notebooks and journals to provide a multifaceted account of a revolutionary life in science as well as Wallace's family life He shows how the self taught Wallace doggedly pursued bold even radical ideas that caused a seismic shift in the natural sciences and how he also courted controversy with nonscientific pursuits such as spiritualism and socialism Costa describes Wallace's courageous social advocacy of women's rights labor reform and other important issues He also sheds light on Wallace's complex relationship with Darwin describing how Wallace graciously applauded his friend and rival becoming one of his most ardent defenders Weaving a revelatory narrative with the latest scholarship *Radical by Nature* paints a mesmerizing portrait of a multifaceted thinker driven by a singular passion for science a commitment to social justice and a lifelong sense of

wonder **Life on Earth and other Planetary Bodies** Arnold Hanslmeier, Stephan Kempe, Joseph Seckbach, 2012-10-29 A trio of editors Professors from Austria Germany and Israel present Life on Earth and other Planetary Bodies The contributors are from twenty various countries and present their research on life here as well as the possibility for extraterrestrial life This volume covers concepts such as life s origin hypothesis of Panspermia and of life possibility in the Cosmos The topic of extraterrestrial life is currently hot and the object of several congresses and conferences While the diversity of normal biota is well known life on the edge of the extremophiles is more limited and less distributed Other subjects discussed are Astrobiology with the frozen worlds of Mars Europa and Titan where extant or extinct microbial life may exist in subsurface oceans conditions on icy Mars with its saline alkaline and liquid water which has been recently discovered chances of habitable Earth like or the terrestrial analogues exoplanets and SETI s search for extraterrestrial Intelligence

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