

Astrobiology

Monica Grady



Astrobiology Pb Smithsonian Natural World Series

Woodruff T. Sullivan, III, John Baross



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ASTROBIOLOGY PB Monica M. Grady, 2001-03-17 Beginning with the Big Bang and formation of the universe this richly illustrated book explores the emergence of life on Earth and beyond Astrobiology looks to other planets to summarize what is known and what can be learned from our studies of the Earth solar system and galaxy 105 color photos *Subject Guide to Children's Books in Print 1997* Bowker Editorial Staff, R R Bowker Publishing, 1996-09 **Astrobiology** Monica M. Grady, 2001-04 Beginning with the Big Bang and formation of the universe this richly illustrated book explores the emergence of life on Earth and beyond Astrobiology looks to other planets to summarize what is known and what can be learned from our studies of the Earth solar system and galaxy 105 color photos 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 *Astrobiology* Octavio A. Chon Torres, Ted Peters, Joseph Seckbach, Richard Gordon, 2021-10-12 **ASTROBIOLOGY** This unique book advances the frontier discussion of a wide spectrum of astrobiological issues on scientific advances space ethics social impact religious meaning and public policy formulation Astrobiology is an exploding discipline in which not only the natural sciences but also the social sciences and humanities converge Astrobiology Science Ethics and Public Policy is a multidisciplinary book that presents different perspectives and points of view by its contributing specialists Epistemological moral and political issues arising from astrobiology convey the complexity of challenges posed by the search for life elsewhere in the universe We ask if a convoy of colonists from Earth make the trip to Mars should their genomes be edited to adapt to the Red Planet's environment If scientists discover a biosphere with microbial life within our solar system will it possess intrinsic value or merely utilitarian value If astronomers discover an intelligent civilization on an exoplanet elsewhere in the Milky Way what would be humanity's moral responsibility to protect Earth from an existential threat To treat other intelligences with dignity To exploit through interstellar commerce To conquer Audience The book will attract readers from a wide range of interests including astronomers astrobiologists chemists biologists space engineers ethicists theologians and philosophers From Influence to Inhabitation James E. Christie, 2019-10-02 This book describes how and why the early modern period witnessed the marginalisation of astrology in Western natural philosophy and the re adoption of the cosmological view of the existence

of a plurality of worlds in the universe allowing the possibility of extraterrestrial life Founded in the mid 1990s the discipline of astrobiology combines the search for extraterrestrial life with the study of terrestrial biology especially its origins its evolution and its presence in extreme environments This book offers a history of astrobiology s attempts to understand the nature of life in a larger cosmological context Specifically it describes the shift of early modern cosmology from a paradigm of celestial influence to one of celestial inhabitation Although these trends are regarded as consequences of Copernican cosmology and hallmarks of a modern world view they are usually addressed separately in the historical literature Unlike others this book takes a broad approach that examines the relationship of the two From Influence to Inhabitation will benefit both historians of astrology and historians of the extraterrestrial life debate an audience which includes researchers and advanced students studying the history and philosophy of astrobiology It will also appeal to historians of natural philosophy science astronomy and theology in the early modern period Habitability of the Universe before Earth ,2017-12-01

Habitability of the Universe before Earth Astrobiology Exploring Life on Earth and Beyond series examines the times and places before life existed on Earth that might have provided suitable environments for life to occur addressing the question Is life on Earth de novo or derived from previous life The universe changed considerably during the vast epoch between the Big Bang 13.8 billion years ago and the first evidence of life on Earth 4.3 billion years ago providing significant time and space to contemplate where when and under what circumstances life might have arisen No other book covers this cosmic time period from the point of view of its potential for life The series covers a broad range of topics encompassing laboratory and field research into the origins and evolution of life on Earth life in extreme environments and the search for habitable environments in our solar system and beyond including exoplanets exomoons and astronomical biosignatures

Astrobiology on the International Space Station Jean-Pierre de Vera,2020-11-17 This volume on astrobiology of the Springer Briefs in Life Sciences book series addresses the three fundamental questions on origin evolution distribution and future of life in the universe how does life begin and evolve Is there life beyond Earth and if so how can we detect it What is the future of life on Earth and in the universe The book provides insights into astrobiological experiments that are being performed on the International Space Station ISS and discusses their findings This extremely exciting volume on astrobiology is intended for scientists of various research fields and for laypersons interested in space research and in the fundamental issues of the universe and life

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