

PLANETS AND LIFE

The Emerging Science of Astrobiology

Edited by **Woodruff T. Sullivan III**
and
John A. Baross



CAMBRIDGE

Planets And Life The Emerging Science Of Astrobiology

Steven J. Dick



Planets And Life The Emerging Science Of Astrobiology:

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 Planets and Life Woodruff Turner Sullivan, John A. Baross, 2007 Handbook of Astrobiology Vera M. Kolb, 2018-12-07 Choice Recommended Title August 2019 Read an exclusive interview with Professor Vera Kolb here Astrobiology is the study of the origin evolution distribution and future of life on Earth This exciting and significant field of research also investigates the potential existence and search for extra terrestrial life in the Solar System and beyond This is the first handbook in this burgeoning and interdisciplinary field Edited by Vera Kolb a highly respected astrobiologist this comprehensive resource captures the history and current state of the field Rich in information and easy to use it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field as well as providing key references for further study Features Fills an important gap in the market providing a comprehensive overview of the field Edited by an authority in the subject with chapters written by experts in the many diverse areas that comprise astrobiology Contains in depth and broad coverage of an exciting field that will only grow in importance in the decades ahead

Frontiers of Astrobiology Chris Impey, Jonathan Lunine, José Funes, 2012-11-15 Investigating the latest research questions in astrobiology this volume will fascinate a wide interdisciplinary audience at all levels Biosignatures for Astrobiology Barbara Cavalazzi, Frances Westall, 2018-10-01 This book aims at providing a brief but broad overview of biosignatures The topics addressed range from prebiotic signatures in extraterrestrial materials to the signatures characterising extant life as well as fossilised life biosignatures related to space and space flight instrumentation to detect biosignatures either in situ or from orbit The book ends with philosophical reflections on the implications of life elsewhere In the 15 chapters written by an interdisciplinary team of experts it provides both detailed explanations on the nature of biosignatures as well as useful case studies showing how they are used and identified in ancient rocks for example One case study addresses the controversial finding of traces of fossil life in a meteorite from Mars The book will be of interest not only to astrobiologists but also to terrestrial paleontologists as well as any reader interested in the prospects of finding a second example of life on another planet Astrobiological Neurosystems Jerry L. Cranford, 2014-09-27 This book explains why

scientists believe that life may be more common in the Universe than previously considered possible. It presents the tools and strategies astronomers and astrobiologists are using in their formal search for habitable exoplanets as well as more advanced forms of life in other parts of our galaxy. The author then summarizes what is currently known about how and where organic molecules critical to our form of carbon based life are manufactured. The core of the book explains and presents educated guesses how nervous systems evolved on Earth how they work and how they might work on other worlds. Combining his knowledge of neuroscience, computers and astrobiology, the author jumps into the discussion whether biological nervous systems are just the first step in the rise of intelligence in the Universe. The book ends with a description from both the psychologist's and the neuroscientist's viewpoints exactly what it is about the fields of astrobiology and astronomy that boggles the minds of many amateur astronomers and interested non scientists. This book stands out from other popular science books on astrobiology by making the point that astro neurobiologists need to begin thinking about how alien nervous systems might work.

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.

How Molecular Forces and Rotating Planets Create Life Jan Spitzer, 2021-02-09. A reconceptualization of origins research that exploits a modern understanding of non covalent molecular forces that stabilize living prokaryotic cells. Scientific research into the origins of life remains exploratory and speculative. Science has no definitive answer to the biggest questions: What is life and How did life begin on earth. In this book Jan Spitzer reconceptualizes origins research by exploiting a modern understanding of non covalent molecular forces and covalent bond formation, a physicochemical approach propounded originally by Linus Pauling and Max Delbrück. Spitzer develops the Pauling-Delbrück premise as a physicochemical jigsaw puzzle that identifies key stages in life's emergence from the formation of first oceans, tidal sediments and proto biofilms to progenotes, proto cells and the first cellular organisms.

Astrobiology Akihiko Yamagishi, Takeshi Kakegawa, Tomohiro Usui, 2019-02-27. This book provides concise and cutting edge reviews in astrobiology, a young and still emerging multidisciplinary field of science that addresses the fundamental questions of how life originated and diversified on Earth, whether life exists beyond Earth and what is the future for life on Earth. Readers will find coverage of the latest

understanding of a wide range of fascinating topics including for example solar system formation the origins of life the history of Earth as revealed by geology the evolution of intelligence on Earth the implications of genome data insights from extremophile research and the possible existence of life on other planets within and beyond the solar system Each chapter contains a brief summary of the current status of the topic under discussion sufficient references to enable more detailed study and descriptions of recent findings and forthcoming missions or anticipated research Written by leading experts in astronomy planetary science geoscience chemistry biology and physics this insightful and thought provoking book will appeal to all students and scientists who are interested in life and space

The Limits of Organic Life in Planetary Systems

National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Origins and Evolution of Life, Committee on the Limits of Organic Life in Planetary Systems, 2007-06-26 The search for life in the solar system and beyond has to date been governed by a model based on what we know about life on Earth terran life Most of NASA's mission planning is focused on locations where liquid water is possible and emphasizes searches for structures that resemble cells in terran organisms It is possible however that life exists that is based on chemical reactions that do not involve carbon compounds that occurs in solvents other than water or that involves oxidation reduction reactions without oxygen gas To assist NASA incorporate this possibility in its efforts to search for life the NRC was asked to carry out a study to evaluate whether nonstandard biochemistry might support life in solar system and conceivable extrasolar environments and to define areas to guide research in this area This book presents an exploration of a limited set of hypothetical chemistries of life a review of current knowledge concerning key questions or hypotheses about nonterran life and suggestions for future research

Atmospheric Evolution on Inhabited and Lifeless Worlds

David C. Catling, James F. Kasting, 2017-04-13 As the search for Earth like exoplanets gathers pace in order to understand them we need comprehensive theories for how planetary atmospheres form and evolve Written by two well known planetary scientists this text explains the physical and chemical principles of atmospheric evolution and planetary atmospheres in the context of how atmospheric composition and climate determine a planet's habitability The authors survey our current understanding of the atmospheric evolution and climate on Earth on other rocky planets within our Solar System and on planets far beyond Incorporating a rigorous mathematical treatment they cover the concepts and equations governing a range of topics including atmospheric chemistry thermodynamics radiative transfer and atmospheric dynamics and provide an integrated view of planetary atmospheres and their evolution This interdisciplinary text is an invaluable one stop resource for graduate level students and researchers working across the fields of atmospheric science geochemistry planetary science astrobiology and astronomy

Fundamental Planetary Science

Jack J. Lissauer, Imke de Pater, 2019-07-04 A quantitative introduction to the Solar System and planetary systems science for advanced undergraduate students this engaging textbook explains the wide variety of physical chemical and geological processes that govern the motions and properties of planets

The authors provide an overview of our current knowledge and discuss some of the unanswered questions at the forefront of research in planetary science and astrobiology today This updated edition contains the latest data new references and planetary images and an extensively rewritten chapter on current research on exoplanets The text concludes with an introduction to the fundamental properties of living organisms and the relationship that life has to its host planet With more than 200 exercises to help students learn how to apply the concepts covered this textbook is ideal for a one semester or two quarter course for undergraduate students

WHERE WHEN AND HOW ANCESTRAL (LUCA) TO ALL LIFE

ORIGINATED Jagjit Singh Rawat,2021-12-06 The book is all about the living beings All living beings including humans have originated and evolved from the Last Universal Common Ancestor LUCA that was possible as a result of spontaneous step by step chemical origin in about 3 750 billion years ago from the elements consisting of life body such as nitrogen bases adenine thymine cytosine guanine and uracil which are made up off the elements C H O N and ribose sugar This life originated in the sediments of the palaeo floodplains at the palaeo mouths of fresh water flows rivers on the Hadean surface in the Archaean Eon This was a global phenomenon The life on the rocky planet like our Earth was possible because of existence of fresh water bodies over minerals metals and clay deposits which rested on Hadean surface and active geological processes and active environments The book also makes an attempt to explain as to how do the simple elements like C H O N S and P first change to simple chemistry H_2O NH_3 followed by CH_4 HCN and monomers monosaccharides amino acids glycerol s fatty acids nucleotides and polymers carbohydrates proteins lipids and nucleic acids There was not much development for about 3210 million years from 3750 million years to 540 million years and suddenly changed jumped to complex life forms in about 541 million years ago Here the life originated and evolved without head and heart from 3750 million years ago to 522 million years ago i e for about 3228 million years The head was originated and evolved in about 521million years ago However consciousness emerged along with bonding of carbon with hydrogen and other elements which were finally converted into nucleosides having nitrogenous base and ribose sugar The gravity and gravitational force intertwined with electromagnetic force were the reason there were bonding of carbon and hydrogen and other elements to originate and evolve LUCA which stayed away from thermodynamic equilibrium

Nature , **Life** Henry Epps,2012-08-06 Life what is life What is the meaning of life what is death and the afterlife Well this book looks into the diffrent beliefs of life and death

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 Nature of Life Mark A. Bedau, Carol E. Cleland, 2018-11-22 Introduces a broad range of scientific and philosophical issues about life through the original historical and contemporary sources *Life at Extremes* Elanor Bell, 2012 From arid deserts to icy poles outer space to the depths of the sea this exciting new work studies the remarkable life forms that have made these inhospitable environments their home Covering not only micro organisms but also higher plants and animals such as worms fish and polar plants this book details the ecological biological and biogeochemical challenges these organisms face and unifying themes between environments Equally useful for the expert student and casual scientific reader this book also explores the impact of climate change rapid seasonal changes and pollution on these extraordinary creatures

Biological Classification , Imagining Outer Space Alexander C.T. Geppert, 2018-04-25 Imagining Outer Space makes a captivating advance into the cultural history of outer space and extraterrestrial life in the European imagination How was outer space conceived and communicated What promises of interplanetary expansion and cosmic colonization propelled the project of human spaceflight to the forefront of twentieth century modernity In what way has West European astroculture been affected by the continuous exploration of outer space Tracing the thriving interest in spatiality to early attempts at exploring imaginary worlds beyond our own the book analyzes contact points between science and fiction from a transdisciplinary perspective and examines sites and situations where utopian images and futuristic technologies contributed to the omnipresence of fantasmatic thought Bringing together state of the art work in this emerging field of historical research the volume breaks new ground in the historicization of the Space Age

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