

Encyclopedia Of Astrobiology

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from Wikipedia entries and published by by Dr Googelberg Gilles Clément Therese Encrenaz
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astrobiology is a remarkably interdisciplinary field this reference serves as a key to understanding technical terms from the different subfields of astrobiology including astronomy biology chemistry the geosciences and the space sciences

now in its third edition the encyclopedia of astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture the carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology the interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e g the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence biologists astrophysicists bio chemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the universe with its overview articles and its definitions the encyclopedia of astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines this new edition offers 170 new entries more than half of the existing entries were updated expanded or supplemented with figures supporting the understanding of the text especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition because the entries in the encyclopedia are in alphabetical order without regard for scientific field this edition includes a

section astrobiology by discipline which lists the entries by scientific field and subfield this should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

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in the most complete reference book ever published for all those curious about life beyond earth darling examines the latest scientific developments and the history of ideas about other worlds and alternative life forms dating back to ancient greece 100 illustrations

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william h paloski ph d human adaptation and countermeasures office nasa johnson space center artificial gravity is an old concept having gotten its start in the late in the 19th century when konstantin tsiolkovsky considered by many to be the father of the russian space program realized that the human body might not respond well to the free fall of orbital space flight to solve this problem he proposed that space stations be rotated to create centripetal accelerations that might provide inertial loading similar to terrestrial gravitational loading einstein later showed in his equivalence principle that acceleration is indeed indistinguishable from gravity subsequently other individuals of note including scientists like werner von braun as well as artists like arthur c clarke and stanley kubrick devised elaborate solutions for spinning vehicles to provide artificial gravity that would offset the untoward physiological consequences of spaceflight by 1959 concerns about the then unknown human responses to spaceflight drove nasa to consider the necessity of incorporating artificial gravity in its earliest human space vehicles of course owing in part to the relatively short durations of the planned missions artificial gravity was not used in the early nasa programs

this book presents a global and synthetic vision of planetology the study of objects in the solar system in the past several decades planetology has undergone a real revolution marked in particular by the discovery of the kuiper belt beyond neptune the discovery of extrasolar planets and also by the space exploration of ever more distant objects today it is at the crossroads of many disciplines astronomy geophysics geochemistry and biology the solar system 2 studies the outer solar system satellites and rings of giant planets small bodies and dwarf planets it also deals with meteorites and cosmochemistry as well as the formation and dynamics of the solar system it addresses the question of the origin of life and extraterrestrial life and presents

all of the methods in the study of planetology

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