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Second Edition



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so strict precautions are necessary Each time a space vehicle visits another world it runs the risk of forever changing that extraterrestrial environment We are surrounded on Earth by a m lange of different microorganisms and if some of these hitchhike onboard a space mission they could contaminate and start colonies on a different planet Such an occurrence would irrevocably alter the nature of that world compromise all future scientific exploration of the body and possibly damage any extant life on it By inadvertently carrying exotic organisms back to Earth on our spacecraft we also risk the release of biohazardous materials into our own ecosystem Such concerns were recognized by scientists even before the 1957 launch of Sputnik This book presents the history of planetary protection by tracing the responses to the above concerns on NASA s missions to the Moon Mars Venus Jupiter Saturn and many smaller bodies of our solar system The book relates the extensive efforts put forth by NASA to plan operations and prepare space vehicles that return exemplary science without contaminating the biospheres of other worlds or our own To protect irreplaceable environments NASA has committed to conducting space exploration in a manner that is protective of the bodies visited as well as of our own planet

Life beyond Earth Athena Coustenis,Thérèse Encrenaz,2013-09-12 What is life and where can it exist What searches are being made to identify conditions for life on other worlds If extraterrestrial inhabited worlds are found how can we explore them In this book two leading astrophysicists provide an engaging account of where we stand in our quest for habitable environments in the Solar System and beyond Starting from basic concepts the narrative builds scientifically including more in depth material as boxed additions to the main text The authors recount fascinating recent discoveries from space missions and observations using ground based telescopes of possible life related artefacts in Martian meteorites extrasolar planets and subsurface oceans on Europa Titan and Enceladus They also provide a forward look to future missions This is an exciting informative read for anyone interested in the search for habitable and inhabited planets and an excellent primer for students in astrobiology habitability planetary science and astronomy

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