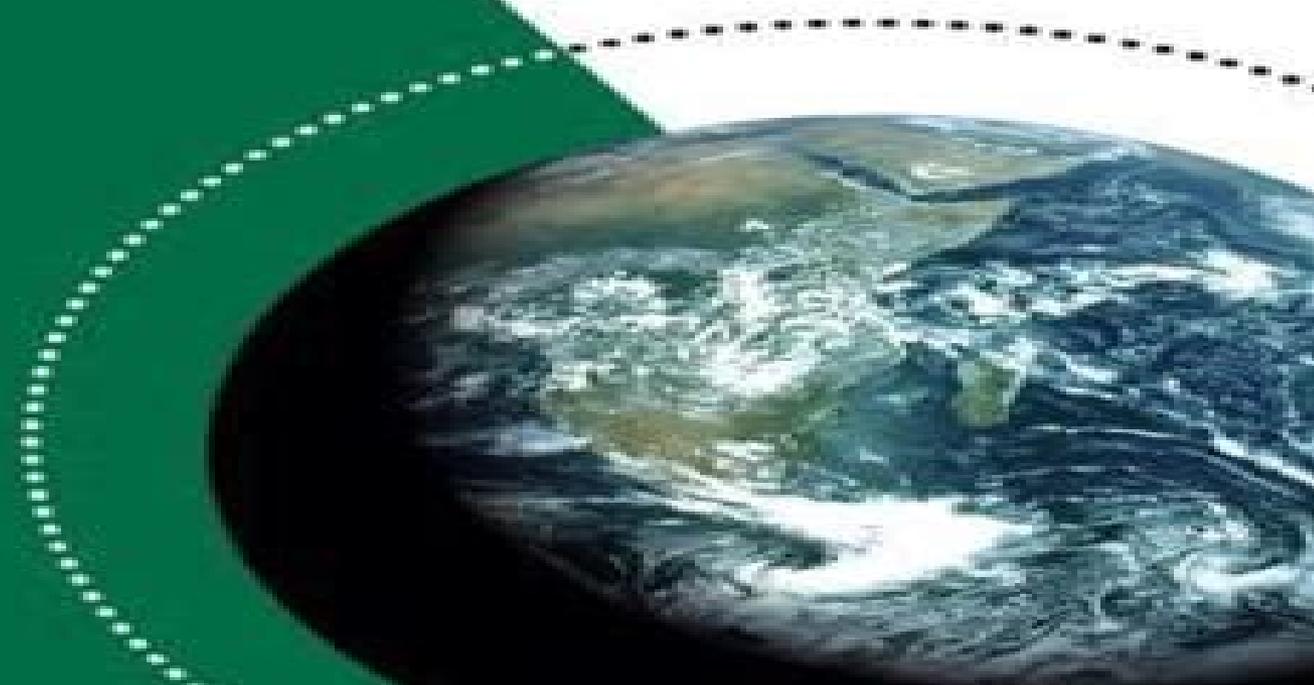


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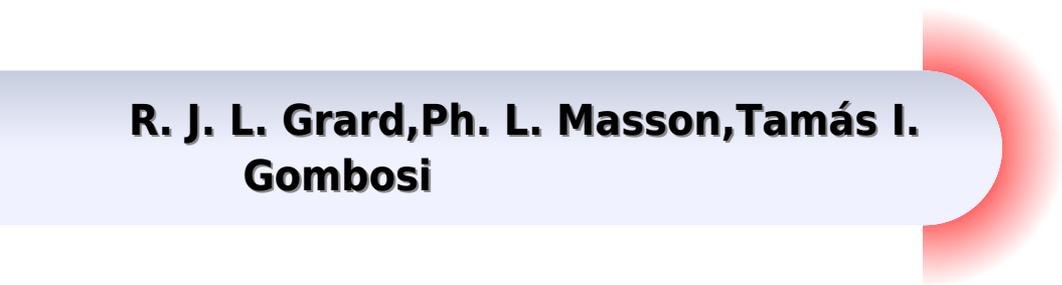


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Space Psychology and Psychiatry Nick Kanas,Dietrich Manzey,2003 This text deals with psychological psychiatric and psychosocial issues that affect people who live and work in space Rather than focusng on anecdotal reports and ground based simulation studies it emphasizes the findings from psychological research conducted during actual space missions readable text has previously been found only in scientific journal articles Topics that are discussed include behavioral adaptation to space human performance and cognitive effects crewmember interactions psychiatric responses psychological counter measures related to habitability factors work design selection training and in flight monitoring and support and the impact of expeditionary missions to Mars and beyond universities medical students and residents in psychiatry and aerospace medicine human factors workers in space and aviation professions individuals involved with isolated environments on Earth for example the Antarctic submarines aerospace workers in businesses and space agencies such as NASA and ESA and anyone who is interested in learning the facts about the human side of long duration space missions

Artificial Gravity Gilles Clément,Angeli Buckley,2007-05-28 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

Meteorological and Geostrophysical Abstracts ,1997 **Government Reports Index** ,1974 **Government Reports Annual Index** ,1974 Mercury, Mars and Saturn R. J. L. Grard,Ph. L. Masson,Tamás I. Gombosi,2004 **Space Studies Board Annual Report** National Research Council (U.S.). Space Studies Board,1998

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