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Fundamentals of Space Medicine (Paperback)

By Gilles Clement

Springer-Verlag New York Inc., United States, 2014. Paperback. Condition: New. 2nd ed. 2011. Language: English . Brand New Book ***** Print on Demand *****.Investigations in space have led to fundamental discoveries of the human body to the space environment. Gilles Clement has conducted extensive research in this field. This readable text presents the findings from the life science experiments conducted during and after space missions. About 1200 human space flights have been completed to date, including more than 500 astronauts from various countries, for a combined total presence in space of about 90 years. The first edition of this title was published in 2005 (written in 2003 - 2004), and new data is now available from crewmembers participating in long-duration flights on board the International Space Station (ISS). The number of astronauts who have spent six months in orbit has doubled since 2004. On board the ISS, the astronauts use newly developed pharmaceutical countermeasure for bone loss (such as bisphosphonates) and state-of-the-art exercise resistive devices against muscle atrophy and cardiovascular deterioration. The ISS life support systems now use advanced closed-loop systems for meeting the needs of a 6-person crew, including recycling urine to water. Some of these new technologies have...



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