

Genta

Next Stop Mars

The Why, How, and When of Human Missions

This book covers the possible manned mission to Mars first discussed in the 1950s and still a topic of much debate, addressing historic and future plans to visit the Red Planet. Considering the environmental dangers and the engineering and design needed for a successful trip, it covers every aspect of a possible mission and outpost. The chapters explain the motivations behind the plan to go to Mars, as well as the physical factors that astronauts on manned missions will face on Mars and in transit. The author provides a comprehensive exposure to the infrastructure needs on Mars itself, covering an array of facilities including power sources, as well as addressing earth-based communication networks that will be necessary. Mechanisms for return to Earth are also addressed. As the reality of a manned Mars voyage becomes more concrete, the details are still largely up in the air. This book presents an overview of proposed approaches past, present, and future, both from NASA and, increasingly, from other space agencies and private companies. It clearly displays the challenges and the ingenious solutions involved in reaching Mars with human explorers.



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