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LUNAR ENVIRONMENT AND DESIGN OF CHINA'S FIRST MOON ROVER YUTU

Abstract

China launched the Chang'e-3 lunar probe with the country's first moon rover aboard on Dec.14, marking a significant step toward deep space exploration. Lunar environment and environmental tests of typical lunar surveyors are discussed in this paper. According to the needs of China's lunar exploration project, environmental impact of moon rovers and Yutu design ideas are studied. Through the research, temperature control device, micro-gravity environment design, dust and other equipment devices used on Yutu all meet the mission requirements.