

综述

探月工程与紫外计量测试技术

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摘要 探月工程是我国“十五”和“十一五”期间的重大工程项目之一。光学技术和光学计量测试技术在探月工程中发挥着重要作用, 紫外相机、紫外星敏感器作为有效载荷装备于探月卫星, 对其紫外光学性能进行计量, 为保证设备性能和探测准确可靠提供重要依据。简要介绍了光学技术和光学计量测试技术在探月工程中发挥的作用, 光学计量站为探月工程开展了测高仪校准、成像光谱仪和立体相机光学参数等测量工作。提出紫外计量的内涵和光学计量站在紫外计量测试方面完成的光谱透射比、紫外辐射和将要开展的紫外计量标准建立等工作。

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Ultraviolet metrology technology in moon exploration project

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Abstract Moon exploration project is one of the main projects during the periods "tenth five year program" and "eleventh five year program" in china. Optical technology and optical metrology technology have played an important role in the moon exploration project. Ultraviolet technology and ultraviolet metrology are attached more and more importance in national defense industry system and the moon exploration project. The role played by optical technology and optical metrology in the moon exploration, and the work done by Optical Metrology Laboratory of XI'AN Institute of Applied Optics are described in this paper. The content of ultraviolet metrology is defined. The work in ultraviolet metrology that has been done and will be done are presented.

Key words [moon exploration project](#) [ultraviolet metrology](#) [imaging spectrometer](#) [stereocamera](#) [height finding laser](#)

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