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风云二号03批卫星空间环境监测器

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Next generation Space Environment Monitor (SEM) for FY-2 satellite series

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摘要

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摘要

风云二号卫星以自旋稳定方式工作于地球静止轨道,自1997年以来,01批与02批卫星空间环境监测器成功的业务运行获得了大量重要探测成果;在继承01批与02批产品研制技术的基础上,提高了03批空间环境监测器的探测性能指标和技术设计,更好地满足空间天气预警业务发展的新需求.本文对风云二号03批卫星空间环境监测器的新设计、关键技术研制和发射前的定标试验结果进行分析和讨论.

关键词 风云二号, 空间环境监测, 太阳X射线, 带电粒子

Abstract:

FY-2 satellites have been observing the terrestrial weather as well as monitoring many aspects of the space environment since 1997. In the past 14 years, the observations obtained by FY-2 satellites have provided plenty data to study space weather about how the solar X ray and energetic charged particles, both proton and electron, affect the earth and its atmospheric environment. For the next series of FY-2 satellites, named series 03 beginning with the first satellite given to the number 07 on the ground and converted to F after being successfully launched, the space environment monitor package will have new instrument design to the solar X-ray detector and energetic particle detectors, which are respectively named the Solar X-ray Spectrometer (SXRS), High Energy Proton and Heavy Ion Detector (HEPHID) and High Energy Electron Detector (HEED). This paper presents the special technologies applied, such as silicon drift detector (SDD) for the Solar X-ray Spectrometer, and the first pre-flight calibration results for the new instruments.

Keywords [FY-2 satellite](#), [Space environment monitor](#), [Solar X ray](#), [Charged energetic particles](#)

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