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论文

轻便式气球、火箭高空大气探测共用系统

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摘要: 鉴于对高空大气探测日益增多的需求, 而常用的接收、跟踪定位设备却比较笨重而且灵活性差, 不能适应既需要机动灵活又能适合于多种场合使用的要求. 本文介绍通过提高接收系统的信噪比同时采用宽波束接收天线, 研制了一套低成本、轻便式高空大气探测简便系统. 〔JP2〕该系统调频发射机和高空大气探测有关仪器和地面抛物面接收天线、低噪声接收机及数据处理设备组成. 主要用于探空气球和微型火箭对高空大气探测数据的接收和处理

关键词: 高空大气探测 双球式电场仪 微火箭电场仪

A portable sharing upper atmospheric sounding system composed of balloon and micro rocket

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Abstract: The requirements of upper atmospheric exploration systems are increasing, but usual receiving and tracking equipment are ponderous and with bad agility, and more and more unsuitable for multi purpose situation which need more flexibility. A low cost portable upper atmospheric sounding system used by both balloon and micro rocket is presented, which has much lower ratio of signal to noise and wider bandwidth. The system is composed of a frequency modulated transmitter, upper atmospheric sounding instruments, a wide beam parabolic receiving antenna on the ground, a receiver with low noise and data processing equipment. It is mainly used to receive and process the data from balloons and micro rockets

Keywords: Atmospheric sounding in upper air Two sphere electric field instrument Micro rocket electric field instrument

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