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一种新的S-TDMA系统的时隙分配方案

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NEW SLOT ALLOCATION SCHEME IN SELF-ORGANIZED TDMA SYSTEMS

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摘要 在分析 S-TDMA系统中典型时隙分配方案的基础上,提出了一种新的时隙动态分配方案,使地面站可以根据用户的需求实时地为其分配时隙。采用排队论的方法对时隙动态分配方案中优先级别不同的用户请求的报文延时性能进行了分析对比。仿真结果表明,这种时隙动态分配方案可以大大缩短优先先级别高的用户请求的报文延时,因而适用于用户有应急需求,需要发送长报文的场合。

关键词： 甚高频数据链　时分多址　时隙分配　时延

Abstract： Based on the analysis of the typical time-slot assignment scheme in a self-organized TDMA system, a new dynamic assignment scheme is proposed in this paper, aimed at allocating slots for users according to their requirements in real time. Using the queue theory, the time delay performance of the scheme is analyzed and compared between two kinds of users' requirements with different Priority. Simulation results show that the scheme can reduce the message delay of users' requirements with higher priority, and thus is applicable to the situation where the users have urgent requirements.

Keywords： VHF dat alink   time division multiple access   slot assignment   time delay

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