
摘要

近年来我国铁路飞速建设现代化铁路进程中，全路正如火如荼地开展着既有线路提速、电气化铁路改造，多条客运专线和高速铁路的施工建设紧张进行中。为更好地适应现代化铁路不断建设发展，同时保障铁路线路运输安全，作为铁路的顺风耳千里眼，通信系统的新技术新设备也在不断更新与装备中。光纤直放站便是其中佼佼者，作为解决铁路无线弱场区信号覆盖的重要设备之一，铁路行业运输生产、客货经营实现信息化的基础设施之一，其在铁路通信系统中发挥着不可或缺的重要作用。本文主要针对光纤直放站的基本定义、结构原理、技术特点、日常故障分析以及在铁路通信系统中的作用进行基本叙述，以西安铁路局管内咸铜线电气化铁路改造为例，简单描述光纤直放站在日常实际中的应用，最后对其今后在铁路通信系统中的发展趋势进行了简要分析。

关键词：铁路通信系统；光纤直放站；电气化铁路

Abstract

In recent years, China's rapid railway construction of modern railway progress, the whole road is in full swing to carry out the existing line speed up, electrified railway transformation, a number of passenger dedicated line and high-speed railway construction is under intense construction. In order to better adapt to the continuous construction and development of modern railway and ensure the safety of railway line transportation, as the part of the railway, new technology and equipment of the communication system are also constantly updated and equipment. Optical fiber direct discharge station is one of the best. As one of the important equipment to solve the signal coverage of the railway wireless weak field area, one of the infrastructure of the railway industry transportation production, passenger and cargo operation, which plays an indispensable role in the railway communication system. This paper discusses the basic definition of fiber station, structure principle, technical characteristics, daily fault analysis and the important role in railway communication system, electrified railway in Xi'an railway bureau as an example, simply describes the application of the fiber station in daily practice, finally analyzes the future development trend in the railway communication system.

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Key words: railway communication system; optical fiber direct discharge station; electrified railway

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