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刘留1,2,陶成1,2,陈后金1,周涛1,孙溶辰1,邱佳慧1.高速铁路无线传播信道测量与建模综述[J].通信学报,2014,(1):115~127

## 高速铁路无线传播信道测量与建模综述

## Survey of wireless channel measurement and characterization for high-speed railway scenarios

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中文关键词: 高速铁路 无线信道 信道测量 信道建模

英文关键词:high-speed railway wireless channel channel measurement channel characterization

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中文摘要:

归纳了国内外已开展的高速铁路无线信道测量活动,总结了国际标准化组织关于高速铁路无线信道的相关提案和标准化模型,分类讨论了高速铁路在不同条件下无线信道大尺度、小 尺度等方面的衰落特性,得出高速铁路无线信道特征参数受传播环境、位置等因素影响较大;根据高速铁路无线信道实际测量的问题,详细分析了基于理论方法的高速铁路无线信道建 模类型,最后提出了未来的研究方向和重点。

英文摘要:

The conducted measurement campaigns, domestic and overseas, were presented. Meanwhile, proposals and standard channel models from the international standardization organization were reviewed. The large-scale and small-scale fading characteristics of High-Speed Railway wireless channels were adequately compared, and it is found that the channel parameters depend on the propagation environment and the distance between the transmitter and receiver. Moreover, due to difficulties encountered in realistic channel measurements, theoretical channel characterization methods were analyzed. Finally, open research issues were presented.

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