

Research on interference cancellation methods for 3G mobile communication systems

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Abstract: This topic focuses on analyzing and proposing effective interference cancellation methods for 3G mobile communication systems. In the context of the increasing complexity of the transmission environment due to various interfering factors, this research aims to address the issue of ensuring Quality of Service (QoS) and reliability in mobile communication. By combining theory with experimentation, we aim to build an advanced interference cancellation system with high adaptability, thereby enhancing the performance of 3G applications. The research results are expected to make a significant contribution to the field of mobile information technology and support the development of future transmission systems.

Keywords: interference cancellation, 3G system, mobile communication, QoS, experimental