

LTE technology and its applications

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Abstract: In the context of the rapid development of mobile technology, this topic focuses on researching Long Term Evolution (LTE) technology, an important standard in mobile network systems. The objective is to explore the unique technical characteristics and diverse applications of LTE to address the problem of improving data transmission performance. The approach includes both theoretical research and experimental deployment on network simulations. The expected results will provide valuable information for the application of LTE technology in modern mobile systems, contributing to the sustainable development of the telecommunications industry.

Keywords: LTE, Mobile technology, 4G network, Experimental deployment, Transmission performance