3G mobile information network planning aligns with the development trend of Vietnam's telecommunications network.

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Abstract: This thesis provides an overview of third-generation (3G) mobile communication systems and the IMT-2000 standard, thereby proposing a 3G network planning solution suitable for the telecommunications development trend in Vietnam. The content delves into the analysis of W-CDMA network architecture, radio transmission techniques, link budget calculation, and baseband parameters such as the signal-to-noise ratio (SNR). The purpose of the thesis is to provide a comprehensive view of the mobile telecommunications infrastructure transition process, ensuring the ability to meet high-speed data usage demands, optimizing network resources, and outlining a direction for the effective and sustainable deployment of 3G technology in Vietnam.

Keywords: 3G network, network planning, mobile communications, W-CDMA, Vietnam telecommunications

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