

Study about the 4th generation mobile information system based on LTE and LTE Advanced technology.

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Abstract: This topic aims to conduct an in-depth study of the fourth-generation mobile information system (4G) based on Long Term Evolution (LTE) and LTE Advanced technology, a significant advancement in the field of mobile communications. The objective of the research is to evaluate the performance and feasibility of existing 4G services and propose improvements to enhance service quality. The methods applied include theoretical analysis, mathematical simulation, and practical experimentation. The expected results will make a significant contribution to the mobile communications industry and promote the development of new applications.

Keywords: 4G mobile information system, LTE, LTE Advanced, Technical research, Network simulation