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Studying The Differences Of Propagation Models Of LTE-A Systems

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ABSTRACT

This paper concerns about the radio propagation models used for the upcoming 4th Generation (4G) of cellular networks known as Long Term Evolution Advance (LTE-A). The radio wave propagation model or path loss model plays a very significant role in planning of any wireless communication systems. In this paper, a Comparison is made between different proposed radio propagation models that would be used for LTE, like Free Space model, Extended Hata model, ITUR P-1546-1 model & ITUR P-1546-4. The comparison is made using different environments (urban, suburban and rural) area, with operating frequency 2000 MHz & band width 10000 KHz.

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