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LTE is designed to efficiently transmit packets of information with low latency (a few milliseconds). LTE is based on OFDM modulation, and mandates the use of MIMO techniques. An LTE signal is organized in frames of 10ms. An LTE frame, in turn, is composed of ten 1ms subframes (Figure 1).

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MATLAB is the ideal language for LTE modeling and simulation Communications System Toolbox extend breadth of MATLAB modeling tools You can accelerate simulation with a variety of options in MATLAB – Parallel computing, GPU processing, MATLAB to C Address implementation workflow gaps with – Automatic MATLAB to C/C++ and HDL

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Modeling a 4G LTE System in MATLAB - MATLAB & Simulink

UNDERSTANDING LTE WITH MATLAB® FROM MATHEMATICAL MODELING TO SIMULATION AND PROTOTYPING Dr Houman Zarrinkoub
MathWorks, Massachusetts, USA

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< Matlab Communication Package > If you have access to Matlab Communication Toolbox, you can implement this sequence as shown below. (This Matlab code clip is from the book : Understanding LTE with Matlab) < srsLTE > Following is the implementation in srsLTE. void srslte_sequence_set_LTE_pr(srslte_sequence_t *q, uint32_t seed) { int n; uint32_t ...

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