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### Introduction to LTE System Toolbox

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2.3 - OFDM/ OFDMA IN 4G LTE - PART 1*LTE with MATLAB-3: LTE Time and Frequency Domain Structures LTE with MATLAB-13: Convolutional Vs. Turbo Coding with MATLAB examples Introduction to Linked Lists (Data Structures \u0026amp; Algorithms #5) LTE with MATLAB-4: OFDM, SC-FDM, and Downlink Physical Channels 2.8 - MIMO TECHNIQUES - CAPACITY \u0026amp; COVERAGE ENHANCEMENT IN 4G LTE LTE Radio Primer Part 1: OFDM Signal* **Map-based visualization of RF propagation for wireless communications**

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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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Motivations • Why LTE with MATLAB? • Underlying transmission technologies has deep mathematical roots • Dynamic nature of LTE transceiver system is best understood and revealed through simulation • MATLAB provides a natural language and environment for mathematical modeling and simulation • Area of author's expertise

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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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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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