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Written for graduate students and professionals, Understanding LTE with MATLAB provides a

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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

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of 10ms. An LTE frame, in turn, is composed of ten 1ms subframes (Figure 1).

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Understanding and Demodulating
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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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LTE modeling and simulation

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extend breadth of MATLAB

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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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< Matlab Communication Package

> If you have access to Matlab
Communication Toolbox, you can
implement this sequence as
shown below. (This Matlab code

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