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## **Understanding Lte With Matlab From Mathematical Modeling To Simulation And Prototyping**

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04 *How to Understand 5G: Beamforming* 5G

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Mathematical Modeling to Simulation and  
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year={2014} }
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LTE is designed to efficiently transmit

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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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processing, MATLAB to C Address

implementation workflow gaps with - Automatic  
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< Matlab Communication Package > If you have access to Matlab Communication Toolbox, you can implement this sequence as shown below.

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(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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