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signal whose values are integers from 0 to  $M-1$ . Represent the signal by listing its values in a vector,  $x$ . Alternatively, you can use a matrix to represent a multichannel signal, where each column of the matrix represents one channel.

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There is a MATLAB function `c2d` that converts a given continuous system (either in transfer function or state-space form) to a discrete system using the zero-order hold operation explained above. The basic syntax for this in MATLAB is `sys_d = c2d(sys,Ts,'zoh')`

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The book makes a complete revision of DSP algorithms, with various examples in Matlab and Simulink implementation. It covers from basic topics to more

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advanced like Kalman Filter and Adaptive Filters. The graphics are very clear and the code in Matlab is well structured. One person found this helpful

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built up from blocks and signal lines.

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computer science students as well as practicing engineers and scientists, this book emphasizes the practical applications of signal processing.

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Import signals from the MATLAB workspace into your signal processing

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model and export signals from your signal processing model to the MATLAB workspace. The signals are created for frame-based processing. Inspect Sample and Frame Rates in Simulink Learn how to determine the sample and frame rates of signals in your model.

### **Signal Operations - MATLAB &**

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Connect the PS-Simulink outputs for the current and speed signals to the Scope and name the signals "Current" and "Speed" The Solver Configuration block defines how the equations of a Simscape network are handled. Connect it to any electrical connection. We do not need to modify the parameters; we will use the

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defaults.

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There, analog voltages are been converted to digital and that digital values will be stored in the EEPROM of Arduino. The values stored in EEPROM will be sent to PC via XBEE (IEEE

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802.15.4) wirelessly and a serial port will be opened in the MATLAB by using a serial object. GUI is programmed to make the user interface interactive and simple.

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