Appendix C

MATLAB’s Simulink Tutorial
Figure C.1
MATLAB Command Window showing how to access Simulink. The Simulink Library Browser button is shown circled
Figure C.2
Simulink Library Browser window showing:

a. the Create a new model button encircled;

b. resulting untitled model window
Figure C.3
Simulink libraries:

a. sources;
b. continuous systems;
c. sinks
Figure C.4
Simulink Block Library window
Figure C.5
Simulink block diagram for Example C.1
Figure C.6
Block Parameters windows for:
(a) 1 volt step source;
(figure continues)
Figure C.6 (continued)
b. gain;  
c. transfer function 1;
Figure C.6 (continued)

d. **mux**

![Block Parameters: Mux](image_url)

(d)
Figure C.7
Windows for the scope:

a. Scope;
b. ‘Scope’ properties, General tab;
c. ‘Scope’ Properties, Data history tab;
d. ‘Scope’ properties: axis 1
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Figure C.8
Simulation Parameters window for Solver tab
Figure C.9
Scope window after Example C.1 simulation stops
Figure C.10
Simulink block diagram for Example C.2
Figure C.11
a. Simulink library for nonlinearities;  
b. parameter settings for saturation
Figure C.12
Scope window after simulation of Example C.2 stops. The bottom curve is the output with saturation.
Figure C.13
a. Simulation block diagram for a feedback system with saturation;
b. block parameter window for the summer
Figure C.14
Simulation output for Example C.3
Figure C.15
Simulink block diagram for simulating digital systems two ways
Figure C.16
Simulinks library of discrete parts
Figure C.17
Block Parameter windows for:

a. **Zero-Order Hold** block;

b. **Discrete Transfer Fcn** block
Figure C.18
Outputs of the digital systems