A Guide to Self-study on MATLAB Programming
(advanced)

Evans Library
Florida Institute of Technology
I. Simulink [1]

1. To simulate the process of a system (virtual) by linked blocks
2. A Glimpse at Examples

   e.g.1 Simulation of a Bouncing Ball
       (Help=>Documentation
        =>Simulink
        =>Examples)

   e.g.2 Noise Canceler
       (Help=>Documentation
        =>DSP System Toolbox)

   (demo)
3. Case Study (digital signal processing/DSP)

(1) Blocks:

(2) Block Diagram (Simulink model):

(3) Display: (demo)
II Graphical User Interface (GUI)

1. The *front-panel* of MATLAB programs (for applications)
2. Two Methods: (1) GUIDE (GUI Development Environment) (2) App-Designer
3. New/App//create new GUI/ (online help)
4. New/App/App Designer/New (online help)
5. Analog to (software control of instruments) LabVIEW™ For Programming
III. Block & Toolbox & Coder

--- A platform for software development

(specified MATLAB coding script and/or Simulink models)

(demo)

EMCCD camera
IV. Resources at MathWorks

https://www.mathworks.com/support/index.html?s_cid=pl_support
https://matlabacademy.mathworks.com/
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Thank you!