ARDUINO MEETS MATLAB:
INTERFACING, PROGRAMS AND SIMULINK

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About the eBook

This book provides a single platform for beginners in systems engineering to start Arduino interface projects with MATLAB®. It covers the basics of the programming with Arduino and Arduino interfacing with MATLAB® (with and without the use or I/O packages) in 3 sections, respectively.

Contents

- Introduction to Arduino, Arduino IDE and Proteus Software
- Arduino Interfacing with Display Devices
- Arduino Interfacing with Digital Sensors
- Arduino Interfacing with Analog Sensors
- Arduino Interfacing with Actuators
- Arduino Interfacing with Wireless Modems
- Matlab Gui
- Simulink and Arduino I/O Package
- Digital Read/Write and Analog Read/Write with Arduino I/O Package
- Digital Read with Proximity and Touch Sensor and Digital Write on LED with Arduino I/O Package
- Key Touch Sensor Based Home Automation with Arduino I/O Package
- Sun Tracker System Using LDR with Arduino I/O Package
- Two Analog Sensors [POT and LM35] Interfacing with Arduino I/O Package
- Three Sensors Data Acquisition and Feedback System with MATLAB and Arduino I/O Package
- Building Automation System
- Robot Control With Matlab Gui
- One Analog Channel And Digital Write Using Matlab Gui
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