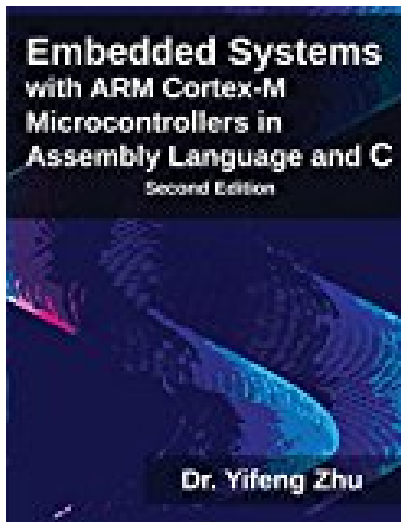


Embedded Systems with ARM Cortex-M Microcontrollers in Assembly Language and C



BOOK DETAILS

- Author : Yifeng Zhu
- Pages : 660 Pages
- Publisher : E-Man Press LLC
- Language : English
- ISBN : 0982692633

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BOOK SYNOPSIS

The book introduces basic programming of ARM Cortex chips in assembly language and the fundamentals of embedded system design. It presents data representations, assembly instruction syntax, floating-point operations, SIMD instructions, implementing fundamental controls of C language at the assembly level, and instruction encoding and decoding. The book also covers many advanced components of embedded systems, such as software and hardware interrupts, general purpose I/O, LCD driver, keypad interaction, real-time clock, stepper motor control, PWM input and output, digital input capture, direct memory access (DMA), digital and analog conversion, serial communication (USART, I2C, SPI, and USB), and digital signal processing.

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