



Building a Programmable Logic Controller with a PIC16F648A Microcontroller (Hardback)

By Murat Uzam

Taylor Francis Inc, United States, 2013. Hardback. Condition: New. Language: English . Brand New Book. Programmable logic controllers (PLCs) are extensively used in industry to perform automation tasks, with manufacturers offering a variety of PLCs that differ in functions, program memories, and the number of inputs/outputs (I/O). Not surprisingly, the design and implementation of these PLCs have long been a secret of manufacturers. Unveiling the mysteries of PLC technology, Building a Programmable Logic Controller with PIC16F648A Microcontroller explains how to design and use a PIC16F648A-microcontroller-based PLC. The author first described a microcontroller-based implementation of a PLC in a series of articles published in Electronics World magazine between 2008 and 2010. This book is based on an improved version of the project, including: * Updates to the hardware configuration, with a smaller CPU board and two I/O extension boards that now support 16 inputs and 16 outputs instead of 8 * An increased clock frequency of 20 MHz * Improvements to several macros * Flowcharts to help you understand the macros (functions) In this book, the author provides detailed explanations of hardware and software structures. He also describes PIC Assembly macros for all basic PLC functions, which are illustrated with numerous...



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