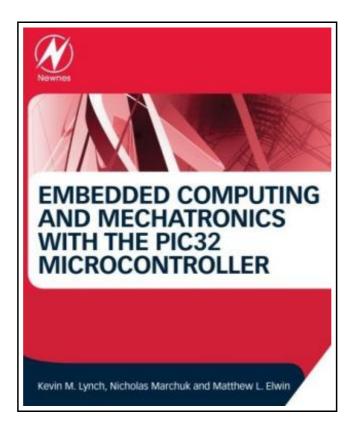
Embedded Computing and Mechatronics with the PIC32 Microcontroller



Filesize: 1.2 MB

Reviews

This publication is wonderful. It can be rally fascinating through reading period of time. You are going to like the way the writer create this publication.

(Mrs. Piper Jacobi)

EMBEDDED COMPUTING AND MECHATRONICS WITH THE PIC32 MICROCONTROLLER



Elsevier Science & Technology. Paperback. Book Condition: new. BRAND NEW, Embedded Computing and Mechatronics with the PIC32 Microcontroller, Kevin Lynch, Nicholas Marchuk, Matthew Elwin, For the first time in a single reference, this book provides the beginner with a coherent and logical introduction to the hardware and software of the PIC32, bringing together key material from the PIC32 Reference Manual, Data Sheets, XC32 C Compiler User's Guide, Assembler and Linker Guide, MIPS32 CPU manuals, and Harmony documentation. This book also trains you to use the Microchip documentation, allowing better life-long learning of the PIC32. The philosophy is to get you started quickly, but to emphasize fundamentals and to eliminate "magic steps" that prevent a deep understanding of how the software you write connects to the hardware. Applications focus on mechatronics: microcontroller-controlled electromechanical systems incorporating sensors and actuators. To support a learn-by-doing approach, you can follow the examples throughout the book using the sample code and your PIC32 development board. The exercises at the end of each chapter help you put your new skills to practice. Coverage includes: * A practical introduction to the C programming language* Getting up and running quickly with the PIC32* An exploration of the hardware architecture of the PIC32 and differences among PIC32 families* Fundamentals of embedded computing with the PIC32, including the build process, timeand memory-efficient programming, and interrupts* A peripheral reference, with extensive sample code covering digital input and output, counter/timers, PWM, analog input, input capture, watchdog timer, and communication by the parallel master port, SPI, I2C, CAN, USB, and UART* An introduction to the Microchip Harmony programming framework* Essential topics in mechatronics, including interfacing sensors to the PIC32, digital signal processing, theory of operation and control of brushed DC motors, motor sizing and gearing, and other actuators such as stepper motors, RC...

Read Embedded Computing and Mechatronics with the PIC32 Microcontroller Online
Download PDF Embedded Computing and Mechatronics with the PIC32
Microcontroller

Other Books



Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age

Adams Media Corporation. Paperback. Book Condition: new. BRAND NEW, Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age, David Dutwin, TV. Web Surfing. IMing. Text Messaging. Video...

Download Book »



Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How...

Download Book »



A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half

Createspace, United States, 2014. Paperback. Book Condition: New. 251×178 mm. Language: English . Brand New Book ***** Print on Demand *****. The ultimate learn-by-doing approach Written for beginners, useful for experienced developers who want to...

Download Book »



You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most

Sourcebooks, Inc. Paperback / softback. Book Condition: new. BRAND NEW, You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most, Patricia Hermes, Thirteen-year-old Sarah Morrow doesn't think much of the...

Download Book »



It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em

HarperCollins Publishers. Paperback. Book Condition: new. BRAND NEW, It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em, Greg Behrendt, Amiira Ruotola-Behrendt, A fabulous new guide to dating...

Download Book »



George Washington's Mother

Penguin Putnam Inc. Paperback / softback. Book Condition: new. BRAND NEW, George Washington's Mother, Jean Fritz, DyAnne DiSalvo-Ryan, The All Aboard Reading series features stories that capture beginning readers' imagination while developing their vocabulary and

Download eBook »



It's a Little Baby (Main Market Ed.)

Pan Macmillan. Board book. Book Condition: new. BRAND NEW, It's a Little Baby (Main Market Ed.), Julia Donaldson, Rebecca Cobb, It's a Little Baby is a beautiful and engaging book for little ones from Julia

Download eBook »



The Gravedigger's Daughter

Ecco. Hardcover. Book Condition: New. 0061236829 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy-I

Download eBook »



Little Girl Lost: The True Story of a Broken Child

HarperCollins Publishers. Paperback. Book Condition: new. BRAND NEW, Little Girl Lost: The True Story of a Broken Child, Mia Marconi, The fourth in a series of true short stories from foster carer Mia Marconi. Kira

Download eBook »



Anna's Fight for Hope: The Great Depression 1931 (Sisters in Time Series 20)

Barbour Publishing, Inc., 2004. Paperback. Book Condition: New. No Jacket. New paperback book copy of Anna's Fight for Hope: The Great Depression 1931 (Sisters in Time Series 20). Publisher recommended for ages 8 to 12

Download eBook »