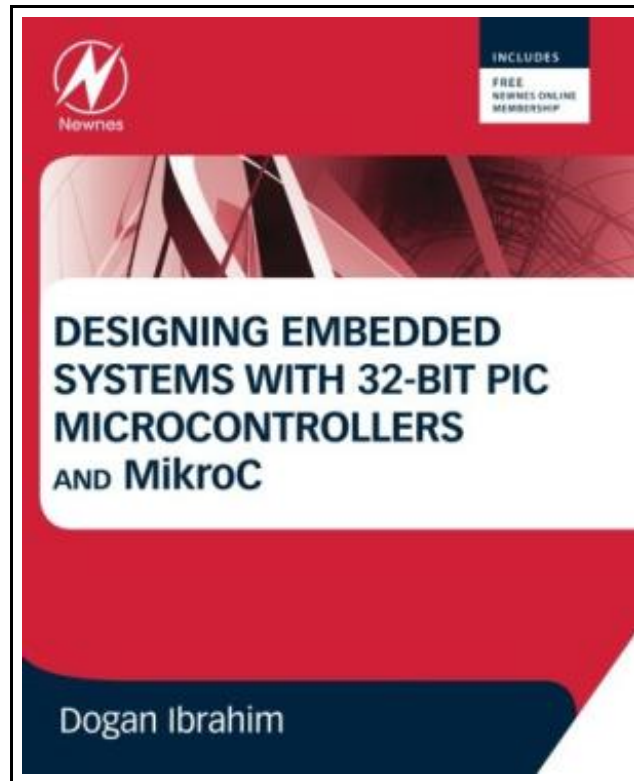# Designing Embedded Systems with 32-Bit PIC Microcontrollers and MikroC

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DESIGNING EMBEDDED SYSTEMS WITH 32-BIT PIC MICROCONTROLLERS AND MIKROC

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ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2014. Paperback. Book Condition: New. 234 x 192 mm. Language: English . Brand New Book. The new generation of 32-bit PIC microcontrollers can be used to solve the increasingly complex embedded system design challenges faced by engineers today. This book teaches the basics of 32-bit C programming, including an introduction to the PIC 32-bit C compiler. It includes a full description of the architecture of 32-bit PICs and their applications, along with coverage of the relevant development and debugging tools. Through a series of fully realized example projects, Dogan Ibrahim demonstrates how engineers can harness the power of this new technology to optimize their embedded designs. With this book you will learn: the advantages of 32-bit PICs; the basics of 32-bit PIC programming; the detail of the architecture of 32-bit PICs; how to interpret the Microchip data sheets and draw out their key points; how to use the built-in peripheral interface devices, including SD cards, CAN and USB interfacing; how to use 32-bit debugging tools such as the ICD3 in-circuit debugger, mikroCD in-circuit debugger, and Real Ice emulator; helps engineers to get up and running quickly with full coverage of architecture, programming and development tools; logical, application-oriented structure, progressing through a project development cycle from basic operation to real-world applications; includes practical working examples with block diagrams, circuit diagrams, flowcharts, full software listings an in-depth description of each operation.

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