Designing embedded systems with 32-bit PIC microcontrollers and MikroC

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Abstrak

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