



1st Edition., 2010, XII, 612 p.

 **Printed book**

Hardcover

- ▶ 119,95 € | £99.95 | \$159.00
- ▶ *128,35 € (D) | 131,95 € (A) | SFr. 172.00

 **eBook**

Available from libraries offering Springer's eBook Collection, or for individual purchase via online bookstores.

A free preview is available on **SpringerLink**.

- ▶ springer.com/ebooks

 **MyCopy**

Printed eBook exclusively available to patrons whose library offers Springer's eBook Collection.***

- ▶ € | \$ 24.95
- ▶ springer.com/mycopy



S. Katzen, University of Ulster, Northern Ireland, UK
The Essential PIC18® Microcontroller

- ▶ Includes fully worked examples and self-assessment questions, with additional support material available on an associated website
- ▶ Provides a standalone module on foundation topics in digital, logic and computer architecture for microcontroller engineering
- ▶ Presents a practical build-and-program case study, and illustrates simple testing strategies

Microprocessors are the key component of the infrastructure of our 21st-century electronic- and digital information-based society. More than four billion are sold each year for use in 'intelligent' electronic devices; ranging from smart egg-timer through to aircraft management systems.

Most of these processors devices appear in the form of highly-integrated microcontrollers, which comprize a core microprocessor together with memory and analog/digital peripheral ports. By using simple cores, these single-chip computers are the cost- and size-effective means of adding the brains to previous dumb widgets; such as the credit card. Using the same winning format as the successful Springer guide, The Quintessential PIC® Microcontroller, this down-to-earth new textbook/guide has been completely rewritten based on the more powerful PIC18 enhanced-range Microchip MCU family. Throughout the book, commercial hardware and software products are used to illustrate the material, as readers are provided real-world in-depth guidance on the design, construction and programming of small, embedded microcontroller-based systems. Suitable for stand-alone usage, the text does not require a prerequisite deep understanding of digital systems.

Order online at springer.com ▶ or for the Americas call (toll free) 1-800-SPRINGER ▶ or email us at: orders-ny@springer.com. ▶ For outside the Americas call +49 (0) 6221-345-4301 ▶ or email us at: orders-hd-individuals@springer.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with * include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with ** include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.

*** Regional restrictions apply.