



# Networking and Internetworking with Microcontrollers (Embedded Technology)

Fred Eady

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## Networking and Internetworking with Microcontrollers (Embedded Technology)

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**Networking and Internetworking with Microcontrollers (Embedded Technology)** Fred Eady Sophisticated networking and communications capabilities that were previously the sole domain of mainframes, PCs, and workstations are now becoming mandatory in the realm of smaller embedded microcontrollers. However, documentation, standards, and design information is scattered among many sources and is difficult to find.

In this practical book, popular columnist and embedded designer Fred Eady is your guide and advisor. He pulls together all the necessary design background and details and shows you how to use today's affordable microcontrollers for powerful communications and networking applications such as local area networks and embedded internet. Using working code examples and schematics, Eady steers you through the basics using two popular microcontroller families, PIC and Atmel.

Included are a wealth of detailed design examples for:

- · RS-232 firmware and hardware
- · Microcontroller USARTs
- · The I2C bus
- · Ethernet implementation
- · Embedded internet implementation
- · Wireless links

Sample source code is provided and thoroughly explained for all the application examples. The accompanying CD-ROM contains the example code as well as a searchable ebook version of the text, to help you get up to speed quickly. You could spend days or even weeks pulling together all the information that Eady has assembled in this one indispensable reference.

- \* The only source that pulls together difficult-to-find design information, and teaches step-by-step how to use it to create powerful networking applications
- \* Includes fully functional examples of microcontroller hardware and firmware
- \* Companion cd-rom includes all schematics and code utilized in the book



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