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emonstratio

n Boards

And Kits

PIC Microcontrollers provides a comprehensive and fully illustrated introduction to microelectronic systems principles

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using the best-selling PIC16 range.

Building on the success of previous editions, this third edition will enable readers to understand PIC products and related programming tools, and develop relevant design skills in order to successfully create

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new projects. Key features include:

Initial focus on the 16F84A chip to introduce the basic architecture and programming techniques, progressing to more recently introduced devices, such as the 16F690, and comparison of the

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whole PIC16 range
Use of the standard
Microchip
development
software, MPLAB
IDE, as well the
interactive ECAD
package Proteus
VSM Standard
Microchip demo
hardware, specially
designed application
boards, in-circuit

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programming and
debugging Basic

interfacing, motor
drives, temperature
control and general
control system
applications

Numerous fully
documented code
examples which can
be downloaded from
the companion
website The book is

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aimed principally at students of electronics on advanced vocational and undergraduate courses, as well as home enthusiasts and professional engineers seeking to incorporate microcontrollers into industrial applications. A focus

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on the 16F84A as the
starting point for

introducing the basic
programming

principles and

architecture of the

PIC, progressing to

newer chips in the

16F range, in

particular the

16F690, and

Microchip starter kits

How to use the free

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Microchip
development

environment MPLAB

IDE, plus Proteus

VSM interactive

electronic design

software, to develop

your own applications

Numerous fully-

documented, working

code examples

downloadable from

the companion

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Demonstration
website

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??????????????????.

Electric drive systems is an area of great change and increasing commercial importance in industry today.

Written by experts in the field, this book

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takes account of recent developments. These have been due largely to the advances in power electronics and computer control; in turn, they have made possible the implementation of a.c. drive systems, in place of d.c. Topics include inverter

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machine dynamics;
constant speed

behavior and the
development of
conventional
equivalent circuits;
vector controlled
systems; and current
regulators.

Emerging

Technologies

PIC Microcontrollers

Mess-, Steuer- und K

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ommunikationsschalt
ungen selbst gebaut
und programmiert

EDN, Electrical

Design News

Designing and

Programming Small

Devices for

Networking

A guide to using

embedded systems

with Ethernet covers

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such topics as hardware and firmware, TCP/IP protocols, creating embedded Web sites, local networks and the Internet, and sending and receiving e-mail using SMTP and POP3.

Based on the popular Artech

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House classic,
Digital
Communication
Systems
Engineering with
Software-Defined
Radio, this book
provides a practical
approach to quickly
learning the
software-defined
radio (SDR)
concepts needed for

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work in the field.

This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation.

This book explores advanced wireless communication techniques such as

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OFDM, LTE, WLA,
and hardware
targeting. Readers
will gain an
understanding of the
core concepts
behind wireless
hardware, such as
the radio frequency
front-end, analog-to-
digital and digital-to-
analog converters,
as well as various

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processing
technologies.

Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is

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explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case

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studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Describing the use of displays in microcontroller based projects, the author makes

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extensive use of real-world, tested projects. The complete details of each project are given, including the full circuit diagram and source code. The author explains how to program microcontrollers (in C language) with LED, LCD and

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GLCD displays; and gives a brief theory about the operation, advantages and disadvantages of each type of display.

Key features:

Covers topics such as: displaying text on LCDs, scrolling text on LCDs, displaying graphics on GLCDs, simple

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GLCD based
games,
environmental
monitoring using
GLCDs (e.g.
temperature
displays) Uses C
programming
throughout the book
– the basic
principles of
programming using
C language and

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introductory
information about
PIC microcontroller
architecture will also
be provided

Includes the highly
popular PIC series
of microcontrollers
using the medium
range PIC18 family
of microcontrollers
in the book.

Provides a detailed

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explanation of
Visual GLCD and
Visual TFT with
examples.

Companion website
hosting program
listings and data
sheets Contains the
extensive use of
visual aids for
designing LED, LCD
and GLCD displays
to help readers to

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understand the details of programming the displays: screenshots, tables, illustrations, and figures, as well as end of chapter exercises Using LEDs, LCDS, and GLCDs in Microcontroller Projects is an

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application oriented
book providing a

number of design
projects making it

practical and

accessible for

electrical &

electronic

engineering and

computer

engineering senior

undergraduates and

postgraduates.

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Practising engineers
Boards And Kits
designing

microcontroller

based devices with

LED, LCD or GLCD

displays will also

find the book of

great use.

Introductory to

Advanced Projects

Digital Rubbish

TCP/IP Lean

Embedded Systems

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Design
Implementing
802.11 with
Microcontrollers:
Wireless Networking
for Embedded
Systems Designers
A Natural History of
Electronics
Focusing on
the line of hi
gh-performance

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microcontrollers offered by
Microchip, Microcontrollers:
High-
Performance
Systems and
Programming
discusses the
practical
factors that
make the high-

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performance
PIC series a
better choice
than their mid-
range
predecessors
for most
systems.

However, one
consideration
in favor of
the mid-range

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devices is the abundance of published application circuits and code samples.

This book fills that gap.

Possibility of programming high-performance

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microcontroller
rs in a high-
level language
(C language)
Source code
compatibility
with PIC16 mic
rocontrollers,
which
facilitates
code migration
from mid-range

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to PIC18
devices Pin
compatibility
of some PIC18
devices with
their PIC16
predecessors,
making the
reuse of PIC16
controllers in
circuits
originally

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designed for
mid-range
hardware
possible
Designed to be
functional and
hands-on, this
book provides
sample
circuits with
their
corresponding

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programs. It clearly depicts and labels the circuits, in a way that is easy to follow and reuse. Each circuit includes a parts list of the resources

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and components
required for
its
fabrication.
The book
matches sample
programs to
the individual
circuits,
discusses
general
programming

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techniques,
and includes
appendices
with useful
information.

Problem
Solving for
Wireless
Sensor
Networks
delivers a
comprehensive

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review of the
state of the
art in the
most important
technological
issues related
to Wireless
Sensor
Networks
(WSN). It
covers topics
such as

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hardware
platforms,
radio
technologies,
software
technologies
(including
middleware),
and network
and deployment
aspects. This
book discusses

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the main open issues inside each of these categories and identifies innovations considered most interesting for future research.

Features: -

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Hardware
Platforms in
WSN, -
Software
Technologies
in SWN, -
Network
Aspects and
Deployment in
WSN, -
Standards and
Safety

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Regulation for
WSN, -

European
Projects
Related to
WSN, - WSN
Application
Scenarios at
both utility
and technical
levels.

Complete,

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cutting-edge
and resulting
from the work
of many
recognized
researchers,
Problem
Solving for
Wireless
Sensor
Networks is an
invaluable

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reference for
graduates and
researchers,
as well as
practitioners.
"This book
presents case
studies,
literature
reviews,
ethnographies,
and frameworks

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supporting the
emerging
technologies
of RFID
implants while
also
highlighting
the current
and predicted
social
implications
of human-

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centric technologies" --Provi

ded by
publisher.

Designing
Embedded
Hardware
EDN.

Electronic
Business Asia
Exploring the
PIC32

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NASA Tech
Briefs

Design News

***Just months after the introduction of the new generation of 32-bit PIC microcontrollers, a Microchip insider and acclaimed author takes you by hand at the exploration of the PIC32 *Includes**

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handy checklists to help readers perform the most common programming and debugging tasks The new 32-bit microcontrollers bring the promise of more speed and more performance while offering an unprecedented level of compatibility with existing 8 and 16-bit

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PIC microcontrollers.

In sixteen engaging chapters, using a parallel track to his previous title dedicated to 16-bit programming, the author puts all these claims to test while offering a gradual introduction to the development and debugging of embedded control

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applications in C.

Author Lucio Di Jasio,

a PIC and embedded

control expert, offers

unique insight into the

new 32-bit architecture

while developing a

number of projects of

growing complexity.

Experienced PIC users

and newcomers to the

field alike will benefit

from the text's many

thorough examples

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**which demonstrate
how to nimbly side-
step common
obstacles, solve real-
world design problems
efficiently and
optimize code using
the new PIC32
features and
peripheral set. You
will learn about:
*basic timing and I/O
operation *debugging
methods with the**

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MPLAB SIM

***simulator and ICD**

tools *multitasking

using the PIC32

interrupts *all the new

hardware peripherals

***how to control LCD**

displays

***experimenting with**

the Explorer16 board

and *the PIC32

Starter Kit *accessing

mass-storage media

***generating audio and**

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**video signals *and
more! TABLE OF
CONTENTS Day 1
And the adventure
begins Day 2 Walking
in circles Day 3
Message in a Bottle
Day 4 NUMB3RS Day
5 Interrupts Day 6
Memory Part 2
Experimenting Day 7
Running Day 8
Communication Day 9
Links Day 10 Glass =**

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**Bliss Day 11 It's an
analog world Part 3**

Expansion Day 12

Capturing User Inputs

Day 13 UTube Day 14

Mass Storage Day 15

File I/O Day 16

Musica Maestro!

32-bit microcontrollers

are becoming the

technology of choice

for high performance

embedded control

applications including

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**portable media
players, cell phones,
and GPS receivers.
Learn to use the C
programming
language for advanced
embedded control
designs and/or learn to
migrate your
applications from
previous 8 and 16-bit
architectures.**

PIC

MicrocontrollersAn

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**Introduction to Microe
lectronicsElsevier**

PIC32

**Microcontrollers and
the Digilent chipKIT:**

Introductory to

Advanced Projects will

teach you about the

architecture of 32-bit

processors and the

hardware details of the

chipKIT development

boards, with a focus

on the chipKIT MX3

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**microcontroller
development board.**

Once the basics are covered, the book then moves on to describe the MPLAB and MPIDE packages using the C language for program development. The final part of the book is based on project development, with techniques learned in

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earlier chapters, using projects as examples. Each project will have a practical approach, with in-depth descriptions and program flow-charts with block diagrams, circuit diagrams, a full program listing and a follow up on testing and further development. With this book you will

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**learn: State-of-the-art
PIC32 32-bit**

microcontroller

architecture How to

program 32-bit PIC

microcontrollers using

MPIDE, MPLAB, and

C language Core

features of the

chipKIT series

development boards

How to develop simple

projects using the

chipKIT MX3

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**development board
and Pmod interface
cards how to develop
advanced projects
using the chipKIT
MX3 development
boards Demonstrates
how to use the PIC32
series of
microcontrollers in
real, practical
applications, and make
the connection between
hardware and software**

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**programming Usage of
the**

PIC32MX320F128H

microcontroller, which

has many features of

the PIC32 device and

is included on the

chipKIT MX3

development board

Uses the highly

popular chipKIT

development boards,

and the PIC32 for real

world applications,

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**making this book one
of a kind**

Using LEDs, LCDs

and GLCDs in

Microcontroller

Projects

The Best of Make:

Embedded Design by

Interactive Simulation

Advanced

Cybersecurity

Technologies

Learning to Fly the

PIC 24

Page 72/173

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**1000 и одна
микронтроллерная
схема. Выпуск 4**

After two years,
MAKE has become
one of most
celebrated new
magazines to hit the
newsstands, and
certainly one of the
hottest reads. If
you're just catching
on to the MAKE

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phenomenon and wonder what you've missed, this book contains the best DIY projects from the magazine's first ten volumes -- a surefire collection of fun and challenging activities going back to MAKE's launch in early 2005. Find out why MAKE has

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attracted a
passionate following
of tech and DIY
enthusiasts
worldwide with one
million web site
visitors and a
quarter of a million
magazine readers.
And why our
podcasts
consistently rank in
the top-25 for

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computers and
technology. With the
Best of MAKE, you'll
share the curiosity,
zeal, and energy of
Makers -- the citizen
scientists, circuit
benders,
homemakers,
students,
automotive
enthusiasts,
roboticists, software

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developers,
musicians, hackers,
hobbyists, and
crafters -- through
this unique and
inspiring assortment
of DIY projects
chosen by the
magazine's editors.
Learn to: Hack your
gadgets and toys
Program
microcontrollers to

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sense and react to
things Take flight

with rockets, planes,
and other projectiles

Make music from
the most surprising

of things Find new
ways to take photos

and make video

Outfit yourself with

the coolest tools Put
together by popular

demand, the Best of

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MAKE is the perfect gift for any maker, including current subscribers who missed early volumes of the magazine. Do you or someone you know have a passion for the magic of tinkering, hacking, and creation? Do you

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enjoy finding
imaginative and
unexpected uses for
the technology and
materials in your
life? Then get on
board with the Best
of MAKE!

A step-by-step
guide to the
fundamentals of
programming the
PIC24H using the

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Microchip IDE
MPLAB and the
Microstick II as the
programng tool.
This is a study of
the material life of
information and its
devices; of
electronic waste in
its physical and
electronic
incarnations; a
cultural and material

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mapping of the spaces where electronics in the form of both hardware and information accumulate, break down, or are stowed away. Where other studies have addressed "digital" technology through a focus on its

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immateriality or virtual qualities, Gabrys traces the material, spatial, cultural and political infrastructures that enable the emergence and dissolution of these technologies. In the course of her book, she explores five interrelated "spaces"

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where electronics
fall apart: from
Silicon Valley to
Nasdaq, from
containers bound for
China to museums
and archives that
preserve obsolete
electronics as
cultural artifacts, to
the landfill as
material repository.
Digital Rubbish: A

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Natural History of
Electronics
describes the
materiality of
electronics from a
unique perspective,
examining the
multiple forms of
waste that
electronics create
as evidence of the
resources, labor,
and imaginaries that

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are bundled into these machines.

Ranging across studies of media and technology, as well as

environments, geography, and design, Jennifer Gabrys draws together the far-reaching material and cultural

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processes that
enable the making
and breaking of
these technologies.

Das große PIC-

Micro Handbuch

Embedded C

Programming

Programming 16-bit

PIC Microcontrollers

in C

Problem Solving for

Wireless Sensor

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Networks

75 Projects from the

Pages of Make

Electronic Design

From cell phones

and television

remote controls to

automobile

engines and

spacecraft,

microcontrollers

are everywhere.

Programming

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these prolific devices is a much more involved and integrated task than it is for general-purpose microprocessors; microcontroller programmers must be fluent in application development, systems

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programming, and
Boards And Kits
I/O operation as

well as memory
management and
system timing.

Using the popular
and pervasive mid-
range 8-bit

Microchip PIC®
as an archetype,

Microcontroller
Programming

offers a self-

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contained
presentation of
the
multidisciplinary
tools needed to
design and
implement modern
embedded
systems and
microcontrollers.
The authors begin
with basic
electronics,

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number systems,
and data concepts

followed by digital

logic, arithmetic,

conversions,

circuits, and

circuit

components to

build a firm

background in the

computer science

and electronics

fundamentals

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involved in programming microcontrollers. For the remainder of the book, they focus on PIC architecture and programming tools and work systematically through programming various functions,

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modules, and devices. Helpful appendices supply the full mid-range PIC instruction set as well as additional programming solutions, a guide to resistor color codes, and a concise method for building

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custom circuit boards. Providing just the right mix of theory and practical guidance, Microcontroller Programming: The Microchip PIC® is the ideal tool for any amateur or professional designing and implementing

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stand-alone systems for a wide variety of applications. Smartphones und Tablets sind hochintegrierte Mini-Computer, die von der Leistungsfähigkeit her typische "Bastlersysteme" wie Arduino oder

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Boards And Kits

Raspberry Pi nicht
selten weit

übertreffen,
selbst wenn sie
älteren Baujahres
sind. Sie
verfügen
standardmäßig
über eine mobile
Spannungsversorg
ung (Akku) und
Mobilfunk, bieten
ein

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hochauflösendes
Display mit

Touchscreen und
besitzen

Funkschnittstellen
wie WLAN und
Bluetooth.

Allerdings fehlen
ihnen frei

programmierbare
I/O-Ports für die
Ankopplung

eigener

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Applikationen.

Klaus Dembowski

zeigt Ihnen

zahlreiche

Möglichkeiten,

die mobilen

Geräte mit

verschiedenen

Schnittstellen

auszustatten,

sodass Sie eigene

Anwendungen

aufbauen können.

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Zum R ü s t z e u g
g e h ö r t a u c h d a s
p a s s e n d e
G r u n d l a g e n w i s s e n
, e t w a ü b e r
e l e k t r o n i s c h e
B a u e l e m e n t e u n d
M e s s t e c h n i k ,
d a m i t I h n e n d i e
n o t w e n d i g e n
V e r s t ä r k e r - u n d
S e n s o r s c h a l t u n g e
n k o r r e k t e u n d

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verlässliche
Ergebnisse
liefern. Das
Themenspektrum
dieses Buches
deckt in
praxisorientierter
Form die
komplette Signalv
erarbeitungskette
vom Sensor bis
zum Internet of
Things ab, wof ü r

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unter anderem die relevanten

Funktechniken

eine wichtige

Rolle spielen. Die

dazu passende

Software – in

Form von Apps –

darf natürlich

nicht fehlen, denn

sie ermöglicht die

Kommunikation

mit der Hardware.

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Für Ihre eigenen
Experimente
werden die
Programme auch
als Download zur
Verfügung
gestellt.

This book
provides a hands-
on introductory
course on
concepts of C
programming

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using a PIC®
microcontroller
and CCS C
compiler. Through
a project-based
approach, this
book provides an
easy to
understand
method of learning
the correct and
efficient practices
to program a

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PIC®

microcontroller in
C language.

Principles of C
programming are
introduced
gradually, building
on skill sets and
knowledge. Early
chapters
emphasize the
understanding of
C language

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through
experience and
exercises, while
the latter half of
the book covers
the PIC®
microcontroller,
its peripherals,
and how to use
those peripherals
from within C in
great detail. This
book

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demonstrates the programming methodology and tools used by most professionals in embedded design, and will enable you to apply your knowledge and programming skills for any real-life application.

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Providing a step-by-step guide to the subject matter, this book will encourage you to alter, expand, and customize code for use in your own projects. A complete introduction to C programming

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using PIC
microcontrollers,
with a focus on
real-world
applications,
programming
methodology and
tools Each chapter
includes C code
project examples,
tables, graphs,
charts,
references,

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photographs,
schematic
diagrams, flow
charts and
compiler
compatibility
notes to channel
your knowledge
into real-world
examples Online
materials include
presentation
slides, extended

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tests, exercises,
quizzes and

answers, real-

world case

studies, videos

and weblinks

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Director

Programming

32-bit

Microcontrollers

in C

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The Brain That

Changes Itself

Stories of

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from the Frontiers

of Brain Science

"Expert assembly

programmers: Learn

how to write

embedded control

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how to boost your
applications with a
powerful 16-bit
architecture;

Explore the world of
embedded control
experimenting with
analog and digital
peripherals, graphic,
displays, video and

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sound"--Cover.

CD-ROM contains:

PC board tools --

Electrion version of
text.

Dieses Buch richtet
sich an

Interessenten, die
bereits erste

Erfahrungen mit PI
C-Microcontrollern
gesammelt haben.

Der Schwerpunkt

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liegt auf den neuen Entwicklungen der letzten Jahre. Dazu zählt natürlich in erster Linie die PIC18-Generation, die mit dem 16-Bit-Kern nicht nur höheren Programmierkomfort, sondern vor allem eine Fülle neuer technischer Möglichkeiten bietet.

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Aber auch von den
PICs mit 14- bzw.
12-Bit-Kern gibt es
viel Neues zu
berichten.

Web Servers for
Embedded Systems
Embedded Ethernet
and Internet
Complete
Techniques and
Applications of C
and PIC MCUS

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Emerging

Technologies

Fabricating Printed

Circuit Boards

Programming and

Customizing

PICmicro (R)

Microcontrollers

Cybersecurity is an

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extremely important area which is rapidly evolving, necessarily, to meet current and future threats. Anyone who studies within this domain requires a particular skillset and way of thinking, balancing technical knowledge and human insight. It is vital to recognize both sides of this complex

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area and integrate the two. This book looks at the technical fields progressively, building up in layers before expanding into more advanced topics.

Each area is looked at succinctly, describing the main elements and problems in each area and reinforcing these concepts with practical coding

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examples, questions and ideas for further research. The book builds on an overview of basic architecture of systems and networks, setting a context for how information is vulnerable.

Cryptography is explained in detail with examples, showing the steady

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progress in this area over time through to the possibilities of quantum encryption. Steganography is also explained, showing how this can be used in a modern-day context through multimedia and even Virtual Reality. A large section of the book is given to the technical side of hacking, how

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such attacks occur, how they can be avoided and what to do after there has been an intrusion of some description.

Cyber

countermeasures are explored, along with automated systems of defense, whether created by the programmer or through firewalls and

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suchlike. The human aspect of cyber security is detailed along with the psychology and motivations for launching attacks. Social engineering is focused on and with the various techniques looked at – revealing how an informed individual, organization or

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workplace can protect themselves against incursions and breaches. Finally, there is a look the latest developments in the field, and how systems, such as the IoT are being protected. The book is intended for advanced undergraduate and postgraduate courses on cybersecurity but is

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also useful for those studying IT or

Computer Science more generally.

Interfacing PIC

Microcontrollers, 2nd

Edition is a great

introductory text for

those starting out in

this field and as a

source reference for

more experienced

engineers. Martin

Bates has drawn upon

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*20 years of
experience of
teaching
microprocessor
systems to produce a
book containing an
excellent balance of
theory and practice
with numerous
working examples
throughout. It provides
comprehensive
coverage of basic
microcontroller system*

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*The Microchip PIC
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devices using the dominant IEEE 802.11 (essentially wireless Ethernet) standard, with astronomical growth predicted over the next 10 years. New applications are emerging every day, with wireless capability being embedded in

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to design a wireless
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rapidly,

inexpensively, and

effectively. Using off-
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networks are getting
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smaller. The Google
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models small

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models to

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Lite for
Microcontrollers,
Google ' s toolkit for
TinyML Debug
applications and
provide safeguards
for privacy and
security Optimize
latency, energy
usage, and model
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who want to build

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software and

hardware engineers

with no prior

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experience in
embedded systems
with the necessary
conceptual and
design building
blocks to
understand the
architectures of
embedded systems.
Written to provide
the depth of
coverage and real-
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developers need,
Designing
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Hardware also
provides a road-
map to the pitfalls
and traps to avoid in
designing
embedded systems.
Designing
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Hardware covers
such essential

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skills to develop,
build, and program
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references.

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for a Hat What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more An astonishing new science called neuroplasticity is

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overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain.

Psychoanalyst,
Norman Doidge,
M.D., traveled the country to meet both the brilliant

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scientists
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championing

neuroplasticity, its
healing powers, and
the people whose
lives they've
transformed—people
whose mental
limitations, brain
damage or brain
trauma were seen as
unalterable. We see

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a woman born with
half a brain that
rewired itself to
work as a whole,
blind people who
learn to see, learning
disorders cured, IQs
raised, aging brains
rejuvenated, stroke
patients learning to
speak, children with
cerebral palsy

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learning to move
with more grace,
depression and
anxiety disorders
successfully treated,
and lifelong
character traits
changed. Using
these marvelous
stories to probe
mysteries of the
body, emotion, love,

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sex, culture, and
education, Dr.

Doidge has written
an immensely
moving, inspiring
book that will
permanently alter the
way we look at our
brains, human
nature, and human
potential.

Learn to build

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human-interactive

Android apps,

starting with device

sensors This book

shows Android

developers how to

exploit the rich set of

device

sensors—locational,

physical (temperature,

pressure, light,

acceleration, etc.),

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microphones,

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recognition—in order
to build fully human-
interactive Android
applications.

Whether providing
hands-free directions
or checking your
blood pressure,

Professional

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Android
Sensor Programming
shows how to turn
possibility into
reality. The authors
provide techniques
that bridge the gap
between accessing
sensors and putting
them to meaningful
use in real-
world situations.

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They not only show you how to use the sensor related APIs effectively, they also describe how to use supporting AndroidOS components to build complete systems. Along the way, they provide solutions to

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problems that commonly occur when using Android's sensors, with tested, real-world examples. Ultimately, this invaluable resource provides in-depth, runnable code examples that you can then adapt for your own

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applications. Shows experienced Android developers how to exploit the richset of Android smartphone sensors to build human-

interactiveAndroid apps Explores

Android locational and physical sensors (includingtemperatur

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e, pressure, light,
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acceleration, etc.), as

well as cameras,

microphones, and

speech recognition

Helps programmers

use the Android

sensor APIs, use

Android

OS components to

build complete

systems, and solve

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commonproblems
Includes detailed,
functional code that
you can adapt and
use for your own
applications Shows
you how to
successfully
implement real-
world solutions using
each class of sensors
for determining

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interpreting physical
sensors, handling
images and audio,
and recognizing
and acting on speech
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programs for this
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