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Diagram

98 Kx 250

Wiring Diagram

A thorough exposition of quantum computing and the underlying concepts of quantum physics, with explanations of the relevant mathematics and

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numerous examples. The combination of two of the twentieth century's most influential and revolutionary scientific theories, information theory and quantum mechanics, gave rise to a radically new view of computing and

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information.

Quantum information processing explores the implications of using quantum mechanics instead of classical mechanics to model information and its processing. Quantum computing is not

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about changing the physical substrate on which computation is done from classical to quantum but about changing the notion of computation itself, at the most basic level. The fundamental unit of computation is no longer the bit but

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the quantum bit or qubit. This comprehensive introduction to the field offers a thorough exposition of quantum computing and the underlying concepts of quantum physics, explaining all the relevant

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mathematics and offering numerous examples. With its careful development of concepts and thorough explanations, the book makes quantum computing accessible to students and professionals in

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mathematics,
computer science,
and engineering. A
reader with no
prior knowledge of
quantum physics
(but with sufficient
knowledge of linear
algebra) will be
able to gain a
fluent
understanding by
working through
the book.

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The second edition of this popular industrial guide describes over 2,800 currently available epoxy resins, curing agents, compounds, and modifiers, based on information supplied by 71 manufacturers or distributors of

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these products. Epoxy resins have experienced tremendous growth since their introduction in the 1950s. Future growth will be in new markets in the specialty performance areas and high-technology applications. Each

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raw material or product is described, as available, with typical assay or checkpoint figures and a brief summary of important features or applications. Additional sections useful to the reader are the Suppliers'

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Addresses and a Trade Name Index. Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of

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Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This

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edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces,

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and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on

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wireless

instrumentation
and microsensors,
and incorporates
extensive
biomedical
examples and
problems.

Containing 13
chapters, this third
edition: Describes
sensor dynamics,
signal conditioning,
and data display

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and storage

Focuses on means
of conditioning the
analog outputs of
various sensors

Considers noise
and coherent
interference in

measurements in
depth Covers the
traditional topics of
DC null methods of
measurement and
AC null

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Diagram

measurements

Examines

Wheatstone and

Kelvin bridges and

potentiometers

Explores the major

AC bridges used to

measure

inductance, Q ,

capacitance, and D

Presents a survey

of sensor

mechanisms

Includes a

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description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect

Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers

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Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and

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Diagram

wireless

instrumentation

Introduces

mechanical

microsensors

(MEMS and NEMS)

Details examples of

the design of

measurement

systems

Introduction to

Instrumentation

and Measurements

is written with

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practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents. This innovative

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approach to the fundamentals of electric power provides the most rigorous, comprehensive and modern treatment available. To impart a thorough grounding in electric power systems, it begins with an informative discussion on per-

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unit

normalizations,
symmetrical
components and
iterative load flow
calculations.

Covering important
topics within the
power system,
such as protection
and DC

transmission, this
book looks at both
traditional power

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plants and those used for extracting sustainable energy from wind and sunlight. With classroom-tested material, this book also presents: the principles of electromechanical energy conversion and magnetic circuits; synchronous

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machines - the most important generators of electric power; power electronics; induction and direct current electric motors.

Homework problems with varying levels of difficulty are included at the end of each chapter,

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and an online solutions manual for tutors is available. A useful Appendix contains a review of elementary network theory. For senior undergraduate and postgraduate students studying advanced electric power systems as

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well as engineers re-training in this area, this textbook will be an indispensable resource. It will also benefit engineers in electronic power systems, power electronic systems, electric motors and generators, robotics and

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mechatronics. [www](http://www.wiley.com/go/kirtley_electric)

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[y_electric](http://www.wiley.com/go/kirtley_electric)

Index to IEEE

Publications

A Fundamental

Technology for

Makers

Fundamentals and

Applications in

Contactless Smart

Cards, Radio

Frequency

Identification and

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Near-Field
Communication
Programming for
Computations -
Python

Fundamentals of
Modern VLSI
Devices

In this DIY guide,
you will learn how
to use Arduino – the
open-source

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hardware board for makers, hobbyists, and inventors. You will learn how to develop your own projects, create prototypes, and produce professional-quality embedded systems. A simple step-by-step demonstration

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system accompanies you from vision to reality □ and just like riding a bike, you□ll get better at it, the more you do it.

Featuring a wealth of detailed diagrams and more than 50 fully functional examples, this book will help you get the

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most out of this
versatile tool and
bring your electronic
inventions to life.

INTRODUCTION
TO
MECHATRONICS
AND
MEASUREMENT
SYSTEMS provides
comprehensive and
accessible coverage

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of the evolving field of mechatronics for mechanical, electrical and aerospace engineering majors. The authors present a concise review of electrical circuits, solid-state devices, digital circuits, and motors- all of which

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are fundamental to understanding mechatronic systems. Mechatronics design considerations are presented throughout the text, and in "Design Example" features. The text's numerous illustrations,

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examples, class discussion items, and chapter questions & exercises provide an opportunity to understand and apply mechatronics concepts to actual problems encountered in engineering practice.

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This text has been tested over several years to ensure accuracy. A text web site is available at <http://www.engr.colostate.edu/~dga/mechatronics/> and contains numerous supplemental resources.

Summarizes core

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information for quick reference in the workplace, using tables and checklists wherever possible. Essential reading for safety officers, company managers, engineers, transport personnel, waste disposal personnel, environmental health

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officers, trainees on industrial training courses and engineering students. This book provides concise and clear explanation and look-up data on properties, exposure limits, flashpoints, monitoring techniques, personal

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protection and a host of other parameters and requirements relating to compliance with designated safe practice, control of hazards to people's health and limitation of impact on the environment. The book caters for the

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multitude of
companies, officials
and public and
private employees
who must comply
with the regulations
governing the use,
storage, handling,
transport and
disposal of
hazardous
substances.

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Reference is made throughout to source documents and standards, and a Bibliography provides guidance to sources of wider ranging and more specialized information. Dr Phillip Carson is Safety Liaison and

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QA Manager at the Unilever Research Laboratory at Port Sunlight. He is a member of the Institution of Occupational Safety and Health, of the Institution of Chemical Engineers' Loss Prevention Panel and of the

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Chemical Industries
Association's
'Exposure Limits
Task Force' and
'Health Advisory
Group'. Dr Clive
Mumford is a Senior
Lecturer in Chemical
Engineering at the
University of Aston
and a consultant. He
lectures on several

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courses of the
Certificate and
Diploma of the
National Examining
Board in
Occupational Safety
and Health. [Given 5
star rating] -
Occupational Safety
& Health, July 1994
- Loss Prevention
Bulletin, April 1994

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- Journal of

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Materials, November

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need to understand
the natural forces
and principles of
physics. Throughout

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every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced

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Handbook of

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Modern Sensors
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Performance
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Reliability, Second
Edition
Spatial, Mechanical,
Thermal, and
Radiation

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Measurement

Make cool stuff. If you're a designer or artist without a lot of programming experience, this book will teach you to work with 2D and 3D graphics, sound, physical interaction, and electronic circuitry to create

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Diagram

*all sorts of
interesting and
compelling
experiences -- online
and off.*

*Programming
Interactivity explains
programming and
electrical
engineering basics,
and introduces three
freely available tools*

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*created specifically
for artists and
designers:*

*Processing, a Java-
based programming
language and
environment for
building projects on
the desktop, Web, or
mobile phones*

*Arduino, a system
that integrates a*

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microcomputer

prototyping board,

IDE, and

programming

language for

creating your own

hardware and

controls

OpenFrameworks, a

coding framework

simplified for

designers and

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artists, using the powerful C++ programming language BTW, you don't have to wait until you finish the book to actually make something. You'll get working code samples you can use right away, along with the

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background and technical information you need to design, program, build, and troubleshoot your own projects. The cutting edge design techniques and discussions with leading artists and designers will give

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*you the tools and
inspiration to let
your imagination
take flight.*

*The essential
introduction to the
principles and
applications of
feedback
systems—now fully
revised and
expanded This*

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textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and

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*researchers in
mathematics and
engineering. It has
applications across
a range of
disciplines that
utilize feedback in
physical, biological,
information, and
economic systems.*

*Karl Åström and
Richard Murray use*

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Diagram

techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions,

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reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this

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class of models.

Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on

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*design principles
and tools,
illustrating the types
of problems that can
be solved using
feedback Includes a
new chapter on
fundamental limits
and new material on
the Routh-Hurwitz
criterion and root
locus plots Provides*

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*exercises at the end
of every chapter
Comes with an
electronic solutions
manual An ideal
textbook for
undergraduate and
graduate students
Indispensable for
researchers seeking
a self-contained
resource on control*

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Diagram
theory

Fossil fuels led the 21st century industrial revolution but caused some critical problems such as exhaustion of resources and global warming. Also, current power plants require too much high cost and

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Diagram

long time for establishment and facilities to provide electricity. Thus, developing new power production systems with environmental friendliness and low-cost is critical global needs. There are some emerging

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Diagram

energy harvesting technologies such as thermoelectric, piezoelectric, and triboelectric nanogenerators, which have great advantages on eco-friendly low-cost materials, simple fabrication, and various operating

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Diagram

sources. Since the introduction of various energy harvesting technologies, many novel designs and applications as power suppliers and physical sensors in the world have been demonstrated based on their unique

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advantages. In this Special Issue, we would like to address and share basic approaches, new designs, and industrial applications related to thermoelectric, piezoelectric, and triboelectric devices which are on-going

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*in Korea. With this
Special Issue, we
aim to promote
fundamental
understanding and
to find novel ways to
achieve industrial
product
manufacturing for
energy harvesters.
Since the publication
of the bestselling*

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first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have

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stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive

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range of nuclear phenomena. New to the Second Edition—

A chapter on radiation detection by Douglas

McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications
Flexible

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*organization of
material that allows
for quick reference*

*This edition also
takes an in-depth
look at particle
accelerators,
nuclear fusion
reactions and
devices, and nuclear
technology in
medical diagnostics*

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and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of

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*nuclear reactors to
the identification of
biological risks
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ionizing radiation.*

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supplemented with
extensive nuclear
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coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

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A Gentle

Introduction to

Numerical

Simulations with

Python

Nanogenerators in

Korea

with Computer

Applications

Sportsman 400,

2001-2003;

Sportsman 500,

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1996-2003; Xplorer

500, 1997

Principles and

Workflow Examples

for Scientific and

Industrial

Applications

Physics for Scientists

and Engineers,

Volume 2

This book presents

computer programming

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as a key method for solving mathematical problems. There are two versions of the book, one for MATLAB and one for Python. The book was inspired by the Springer book TCSE 6: A Primer on Scientific Programming with Python (by Langtangen), but the style is more accessible and concise, in keeping

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with the needs of engineering students. The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and

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science courses. The emphasis is on generic algorithms, clean design of programs, use of functions, and automatic tests for verification.

Seven years have passed since the publication of the previous edition of this book. During that time, sensor technologies have made a

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remarkable leap forward. The sensitivity of the sensors became higher, the dimensions became smaller, the selectivity became better, and the prices became lower. What have not changed are the fundamental principles of the sensor design. They are still governed by the laws of Nature. Arguably one of the

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greatest geniuses who ever lived, Leonardo Da Vinci, had his own peculiar way of praying. He was saying, "Oh Lord, thanks for Thou do not violate your own laws. " It is comforting indeed that the laws of Nature do not change as time goes by; it is just our appreciation of them that is being re?ned.

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Thus, this new edition examines the same good old laws of Nature that are employed in the designs of various sensors. This has not changed much since the previous edition. Yet, the sections that describe the practical designs are revised substantially. Recent ideas and developments have been added, and

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less important and nonessential designs were dropped. Probably the most dramatic recent progress in the sensor technologies relates to wide use of MEMS and MEOMS (micro-electro-mechanical systems and micro-electro-opto-mechanical systems). These are examined in this new edition with

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greater detail. This book is about devices commonly called sensors. The invention of a - croprocessor has brought highly sophisticated instruments into our everyday lives.

A theoretical and technical guide to the electric vehicle lithium-ion battery management system

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Covers the timely topic of battery management systems for lithium batteries. After introducing the problem and basic background theory, it discusses battery modeling and state estimation. In addition to theoretical modeling it also contains practical information on charging and

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discharging control technology, cell equalisation and application to electric vehicles, and a discussion of the key technologies and research methods of the lithium-ion power battery management system. The author systematically expounds the theory knowledge included in the lithium-

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ion battery

management systems

and its practical

application in electric

vehicles, describing the

theoretical connotation

and practical

application of the

battery management

systems. Selected

graphics in the book

are directly derived

from the real vehicle

tests. Through

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Diagram

comparative analysis of the different system structures and different graphic symbols, related concepts are clear and the understanding of the battery management systems is enhanced. Contents include: key technologies and the difficulty point of vehicle power battery management system;

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Diagram

lithium-ion battery performance modeling and simulation; the estimation theory and methods of the lithium-ion battery state of charge, state of energy, state of health and peak power; lithium-ion battery charge and discharge control technology; consistent evaluation and equalization techniques

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*of the battery pack;
battery management
system design and
application in electric
vehicles. A theoretical
and technical guide to
the electric vehicle
lithium-ion battery
management system
Using simulation
technology, schematic
diagrams and case
studies, the basic
concepts are described*

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clearly and offer detailed analysis of battery charge and discharge control principles Equips the reader with the understanding and concept of the power battery, providing a clear cognition of the application and management of lithium ion batteries in electric vehicles Arms

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audiences with lots of case studies Essential reading for Researchers and professionals working in energy technologies, utility planners and system engineers.

The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all

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aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses

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processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Spatial, Mechanical, Thermal,

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Diagram
and Radiation

*Measurement volume
of the Second Edition:
Contains contributions
from field experts, new
chapters, and updates
to all 96 existing
chapters Covers
instrumentation and
measurement concepts,
spatial and mechanical
variables, displacement,
acoustics, flow and spot
velocity, radiation,*

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wireless sensors and instrumentation, and control and human factors A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development,

Measurement,

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*Instrumentation, and
Sensors Handbook,
Second Edition:
Spatial, Mechanical,
Thermal, and
Radiation
Measurement provides
readers with a greater
understanding of
advanced applications.
Electric Power
Transformer
Engineering
RFID Handbook*

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Diagram

*Sources, Conversion,
Distribution and Use
Fundamentals and
Applications of Lithium-
ion Batteries in Electric
Drive Vehicles*

Aeronautical

Engineer's Data Book

Quantum Computing

Newnes

Electrical Pocket

Book is the ideal

daily reference

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source for electrical engineers, electricians and students. First published in 1932 this classic has been fully updated in line with the latest technical developments,

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regulations and industry best practice.

Providing both in-depth

knowledge and a broad

overview of the field this pocket

book is an

invaluable tool

of the trade. A

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handy source of essential information and data on the practice and principles of electrical engineering and installation. The 23rd edition has been updated by engineering

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author and
consultant
electrical
engineer, Martin
Heathcote.

Major revisions
have been made
to the sections
on
semiconductors,
power
generation,

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transformers,
building
automation
systems, electric
vehicles,
electrical
equipment for
use in
hazardous
areas, and
electrical
installation

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(reflecting the changes introduced to the IEE Wiring Regulations BS7671: 2001). The fourth edition of this work continues to provide a thorough perspective of the

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subject,
communicated
through a clear
explanation of
the concepts
and techniques
of electric
circuits. This
edition was
developed with
keen attention
to the learning

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needs of students. It includes illustrations that have been redesigned for clarity, new problems and new worked examples.

Margin notes in the text point

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out the option of
integrating
PSpice with the
provided
Introduction to
PSpice; and an
instructor's
roadmap (for
instructors only)
serves to
classify
homework

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problems by approach. The author has also given greater attention to the importance of circuit memory in electrical engineering, and to the role of electronics in the electrical

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engineering
curriculum.

Kawasaki KX250
1992-2000

This is the third
revised edition
of the
established and
trusted RFID
Handbook; the
most
comprehensive

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introduction to
radio frequency
identification
(RFID) available.
This essential
new edition
contains
information on
electronic
product code
(EPC) and the
EPC global

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network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems

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and

microprocessors
, and supplies
up-to-date
details on
relevant
standards and
regulations.

Taking into
account critical
modern
concerns, this

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handbook provides the latest information on: the use of RFID in ticketing and electronic passports; the security of RFID systems, explaining attacks on RFID

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systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency

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ranges and radio
licensing
regulations. The
text explores
schematic
circuits of
simple
transponders
and readers,
and includes
new material on
active and

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passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a

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complete
overview of the
large and varied
world of RFID,
Klaus
Finkenzeller's
volume is useful
for end-users of
the technology
as well as
practitioners in
auto ID and IT

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designers of
RFID products.
Computer and
electronics
engineers in
security system
development,
microchip
designers, and
materials
handling
specialists

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benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for

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Provides a

thorough

*explanation of the
basic properties*

of materials; of

how these can be

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controlled by processing; of how materials are formed, joined and finished; and of the chain of reasoning that leads to a successful choice of material for a particular application. The materials covered

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are grouped into four classes: metals, ceramics, polymers and composites. Each class is studied in turn, identifying the families of materials in the class, the microstructural features, the processes or

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treatments used to obtain a particular structure and their design applications. The text is supplemented by practical case studies and example problems with answers, and a

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*and full of
wisdom...bound
to change your
thinking about
parenting and its
conventions”
(Amy Chua,
author of Battle
Hymn of the Tiger
Mother). If you're
like many
parents, you
might ask family*

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and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But

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when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously

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reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them

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*impulse control
by giving them
weird names
(because
evidence shows
kids with unique
names learn not
to react when
their peers tease
them) to getting a
vasectomy
(because fewer
kids in a family*

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mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these

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experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession.

Parentology teaches you everything you need to know about the latest

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literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

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engineers and

prepares them

with a solid

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habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on

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principles Ion

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and Hall thrusters

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and
complemented
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**Covering the
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theory of electric
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transformers,
this book
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understand the basic operation of electromagnetic induction as applied to transformers. The book is divided into three fundamental groupings: one stand-alone

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further understanding the method, and provides references such as textbooks, network guidelines and journal papers. It is also intended to help students and researchers in field deployment

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of instruments used with the Eddy Covariance method, and to promote its use beyond micrometeorology.

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