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This book
constitutes the
proceedings of
the 12th
International
Conference on
Information

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Security and
Practice and
Experience,
ISPEC 2016,
held in
Zhangjiajie,
China, in
November 2016.
The 25 papers
presented in this
volume were
carefully

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reviewed and
selected from 75
submissions.

They cover
multiple topics in
information
security, from
technologies to
systems and
applications.

Multivariate
General Linear

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Models is an integrated introduction to multivariate multiple regression analysis (MMR) and multivariate analysis of variance (MANOVA). Beginning with

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an overview of the univariate general linear model, this volume defines the key steps in analyzing linear model data, and introduces multivariate linear model analysis as a

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generalization of the univariate model. The author focuses on multivariate measures of association for four common multivariate test statistics, presents a flexible method

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for testing hypotheses on models, and emphasizes the multivariate procedures attributable to Wilks, Pillai, Hotelling, and Roy. The volume concludes with a discussion of

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canonical
correlation
analysis that is
shown to
subsume all the
multivariate
procedures
discussed in
previous
chapters. The
analyses are
illustrated

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throughout the
text with three
running
examples
drawing from
several disciplines,
including
personnel
psychology,
anthropology,
environmental
epidemiology,

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and

neuropsychology

.

Handbook of
Chemometrics
and Qualimetrics

The essential
introduction to
the theory and
application of
linear
models—now in a

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valuable new
edition Since
most advanced
statistical tools
are
generalizations
of the linear
model, it is
neces-sary to
first master the
linear model in
order to move

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forward to more advanced concepts. The linear model remains the main tool of the applied statistician and is central to the training of any statistician regardless of

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whether the focus is applied or theoretical. This completely revised and updated new edition successfully develops the basic theory of linear models for regression,

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analysis of
variance,
analysis of
covariance, and
linear mixed
models. Recent
advances in the
methodology
related to linear
mixed models,
generalized
linear models,

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and the Bayesian
linear model are
also addressed.
Linear Models in
Statistics,
Second Edition
includes full
coverage of
advanced topics,
such as mixed
and generalized
linear models,

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Bayesian linear models, two-way models with empty cells, geometry of least squares, vector-matrix calculus, simultaneous inference, and logistic and nonlinear

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regression.

Algebraic,
geometrical,
frequentist, and
Bayesian
approaches to
both the
inference of
linear models
and the analysis
of variance are
also illustrated.

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Through the expansion of relevant material and the inclusion of the latest technological developments in the field, this book provides readers with the theoretical foundation to

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correctly interpret computer software output as well as effectively use, customize, and understand linear models. This modern Second Edition features: New chapters on

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Bayesian linear models as well as random and mixed linear models
Expanded discussion of two-way models with empty cells
Additional sections on the geometry of

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least squares

Updated

coverage of

simultaneous

inference The

book is

complemented

with easy-to-

read proofs, real

data sets, and an

extensive

bibliography. A

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thorough review
of the requisite
matrix algebra
has been
added for
transitional
purposes, and
numerous
theoretical and
applied problems
have been
incorporated

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with selected answers provided at the end of the book. A related Web site includes additional data sets and SAS® code for all numerical examples. Linear Model in

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Statistics,
Second Edition is
a must-have
book for courses
in statistics,
biostatistics, and
mathematics at
the upper-
undergraduate
and graduate
levels. It is also
an invaluable

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reference for
researchers who
need to gain a
better
understanding of
regression and
analysis of
variance.

Smart
Technologies for
Precision
Assembly

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Using the
FreeRTOS Real
Time Kernel
A Practical
Approach Nucleo-
F091RC Edition
Non-Fragile
Control and
Filtering
Software-
Defined Radio
for Engineers

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Signal and Power Integrity--simplified

Embedded Software Development: The Open-Source Approach delivers a practical introduction to embedded software development, with a focus on open-source components. This programmer-centric

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book is written in a way that enables even novice practitioners to grasp the development process as a whole.

Incorporating real code fragments and explicit, real-world open-source operating system references (in particular, FreeRTOS) throughout, the text: Defines the role and purpose of embedded

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systems, describing their internal structure and interfacing with software development tools Examines the inner workings of the GNU compiler collection (GCC)-based software development system or, in other words, toolchain Presents software execution models that can be adopted profitably to

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model and express
concurrency Addresses
the basic nomenclature,
models, and concepts
related to task-based
scheduling algorithms
Shows how an open-
source protocol stack
can be integrated in an
embedded system and
interfaced with other
software components
Analyzes the main
components of the

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FreeRTOS Application Programming Interface (API), detailing the implementation of key operating system concepts Discusses advanced topics such as formal verification, model checking, runtime checks, memory corruption, security, and dependability Embedded Software Development: The Open-

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Source Approach capitalizes on the authors' extensive research on real-time operating systems and communications used in embedded applications, often carried out in strict cooperation with industry. Thus, the book serves as a springboard for further research. This book presents real-world problems and

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exploratory research in computational statistics, mathematical modeling, artificial intelligence and software engineering in the context of the intelligent systems. This book constitutes the refereed proceedings of the 3rd Computational Methods in Systems and Software 2019 (CoMeSySo 2019), a groundbreaking

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online conference that provides an international forum for discussing the latest high-quality research results.

Get up to speed with the latest developments in Automotive Ethernet technology and implementation with this fully revised third edition.

When dealing with the

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design or with the application of any technical system, which is not quite simple and trivial, one has to face to the problem to determine the allowable deviations of the system functions and the optimal vector of system parameter tolerances.

The need for the solution of this problem is stimulated with

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various serious economic and maintenance aspects, between them the tendency to reach the minimal production cost, the maximal system operation reliability are the most frequent. Suppose that we are dealing with an system S , consisting of N components represented by the system parame

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ters $x_i, i = 1, 2, \dots, N$, which are arranged in certain structure so, that the K , system functions $F_k, k = 1, 2, \dots, IG$, expressing the considered system properties, fulfill the condition $F \in FO \sim AF, /1/$ \ 'here $F = \{F_k\}$ is the set of the actual system functions, $FO = \{FOk\}$ is the set of the nominal system

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functions and $A F = I A$
 $F k 1(\cdot, \cdot)$ is the set $O f$
the a 11 $O w a b 1 e s$
emf y s t u n c i o n t s de
viations. The set F
depends besides the
system structure also on
the vector $X = [X_i]_N$ of
the system parameters.
Suppose, that the system
structure is invariant.

Proceedings of 3rd
Computational Methods
in Systems and Software

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2019, Vol. 2

Information Security

Practice and Experience

Autonomous Vehicles

Plus

Automotive Ethernet

Automated Procedure

for Developing Hybrid

Computer Simulations

of Turbofan Engines.

Part 1: General

Description

Computer Vision -

ACCV 2010

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Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-

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***defined radio
(SDR) concepts
needed for 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.***

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This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core

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concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes

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**chapters on
timing
estimation,
matched
filtering, frame
synchronization
message
decoding, and
source coding.
The orthogonal
frequency
division
multiplexing is
explained and**

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

A comprehensive

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***and accessible
introduction to
the development
of embedded
systems and
Internet of
Things devices
using ARM mbed
Designing
Embedded
Systems and the
Internet of
Things (IoT) with
the ARM mbed***

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offers an accessible guide to the development of ARM mbed and includes a range of topics on the subject from the basic to the advanced. ARM mbed is a platform and operating system based on 32-bit

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**ARM Cortex-M
microcontrollers.
This important
resource puts
the focus on ARM
mbed NXP
LPC1768 and
FRDM-K64F
evaluation
boards. NXP
LPC1768 has
powerful
features such as
a fast**

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microcontroller, various digital and analog I/Os, various serial communication interfaces and a very easy to use Web based compiler. It is one of the most popular kits that are used to study and create projects. FRDM-

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K64F is relatively new and largely compatible with NXP LPC1768 but with even more powerful features. This approachable text is an ideal guide that is divided into four sections; Getting Started with the ARM mbed,

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Covering the Basics, Advanced Topics and Case Studies. This getting started guide: Offers a clear introduction to the topic Contains a wealth of original and illustrative case studies Includes

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*a practical guide
to the
development of
projects with the
ARM mbed
platform
Presents timely
coverage of how
to develop IoT
applications
Designing
Embedded
Systems and the
Internet of*

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*Things (IoT) with
the ARM mbed
offers students
and R&D
engineers a
resource for
understanding
the ARM mbed
NXP LPC1768
evaluation
board.*

*Linear Systems:
Non-Fragile
Control and*

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***Filtering
presents the
latest research
results and a
systematic
approach to
designing non-
fragile
controllers and
filters for linear
systems. The
authors combine
the algebraic
Riccati***

technique, the linear matrix inequality (LMI) technique, and the sensitivity analysis method to establish a set of new non-fragile (insensitive) control methods. This proposed method can optimize the

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***closed-loop
system
performance and
make the
designed
controllers or
filters tolerant of
coefficient
variations in
controller or
filter gain
matrices. A
Systematic
Approach to***

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***Designing Non-Fragile
Controllers and
Filters for Linear
Systems The text
begins with
developments
and main
research
methods in non-
fragile control. It
then
systematically
presents novel***

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methods for non-fragile control and filtering of linear systems with respect to a dditive/multiplicative controller/filter gain uncertainties. The book introduces the algebraic Riccati equation

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technique to solve additive/multiplicative norm-bounded controller/filter gain uncertainty, and proposes a structured vertex separator to deal with the numerical problem resulting from interval-bounded

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coefficient variations. It also explains how to design insensitive controllers and filters in the framework of coefficient sensitivity theory. Throughout, the book includes numerical

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examples to demonstrate the effectiveness of the proposed design methods. More Effective Design Methods for Non-Fragile Controllers and Filters The design and analysis tools described will help readers to

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***better
understand and
analyze
parameter
uncertainties
and to design
more effective
non-fragile
controllers and
filters. Providing
a coherent
approach, this
book is a
valuable***

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***reference for
researchers,
graduate
students, and
anyone who
wants to explore
the area of non-
fragile control
and filtering.
The four-volume
set LNCS
6492-6495
constitutes the
thoroughly***

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refereed post-proceedings of the 10th Asian Conference on Computer Vision, ACCV 2009, held in Queenstown, New Zealand in November 2010. All together the four volumes present 206 revised papers selected from a

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total of 739

Submissions. All current issues in computer vision are addressed ranging from algorithms that attempt to automatically understand the content of images, optical methods coupled with

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**computational
techniques that
enhance and
improve images,
and capturing
and analyzing
the world's
geometry while
preparing the
higher level
image and shape
understanding.**

**Novel
gemometry**

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***techniques,
statistical
learning
methods, and
modern algebraic
procedures are
dealt with as
well.***

***Reusable
Firmware
Development
A Specification
for a New Family
of RISC***

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Navigation
Systems with
Geodetic
Applications
The PowerPC
Architecture
Information
Security
Technology for
Applications
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Interested in developing embedded systems? Since they don't tolerate inefficiency, these systems require a disciplined approach to programming. This easy-to-read guide helps you cultivate a host of good development

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hardware difficulties
and manufacturing
requirements.

Written by an expert
who's created
embedded systems
ranging from urban
surveillance and
DNA scanners to
children's toys, this
book is ideal for
intermediate and
experienced

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programmers, no matter what platform you use. Optimize your system to reduce cost and increase performance

Develop an architecture that makes your software robust in resource-constrained environments

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Explore sensors, motors, and other I/O devices Do more with less: reduce RAM consumption, code space, processor cycles, and power consumption Learn how to update embedded code directly in the processor Discover

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how to implement
complex
mathematics on
small processors
Understand what
interviewers look for
when you apply for
an embedded
systems job "Making
Embedded Systems
is the book for a C
programmer who
wants to enter the

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fun (and lucrative) world of embedded systems. It's very well written—entertaining, even—and filled with clear illustrations." —Jack Ganssle, author and embedded system expert.

Learn how automotive Ethernet is revolutionizing in-

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car networking from the experts at the core of its development.

Providing an in-depth account of automotive Ethernet, from its background and development, to its future prospects, this book is ideal for industry

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professionals and academics alike.

The Definitive Guide to the ARM Cortex-M0 is a guide for users of ARM Cortex-M0 microcontrollers. It presents many examples to make it easy for novice embedded-software developers to use

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the full 32-bit ARM Cortex-M0 processor. It provides an overview of ARM and ARM processors and discusses the benefits of ARM Cortex-M0 over 8-bit or 16-bit devices in terms of energy efficiency, code

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density, and ease of use, as well as their features and applications. The book describes the architecture of the Cortex-M0 processor and the programmers model, as well as Cortex-M0 programming and instruction set and

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how these instructions are used to carry out various operations. Furthermore, it considers how the memory architecture of the Cortex-M0 processor affects software development;

Nested Vectored Interrupt Controller

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(NVIC) and the features it supports, including flexible interrupt management, nested interrupt support, vectored exception entry, and interrupt masking; and Cortex-M0 features that target the embedded operating system. It

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also explains how to develop simple applications on the Cortex-M0, how to program the Cortex-M0 microcontrollers in assembly and mixed-assembly languages, and how the low-power features of the Cortex-M0 processor are used

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in programming.

Finally, it describes a number of ARM Cortex-M0 products, such as microcontrollers, development boards, starter kits, and development suites. This book will be useful to both new and advanced users of ARM

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Cortex devices,
from students and
hobbyists to
researchers,
professional
embedded- software
developers,
electronic
enthusiasts, and
even semiconductor
product designers.
The first and
definitive book on

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the new ARM
Cortex-M0
architecture
targeting the large
8-bit and 16-bit
microcontroller
market Explains the
Cortex-M0
architecture and
how to program it
using practical
examples Written by
an engineer at ARM

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who was heavily
involved in its
development

The purpose of this
two-volume
textbook is to
provide students of
engineering,
science and applied
mathematics with
the specific
techniques, and the
framework to

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develop skill in using them, that have proven effective in the various branches of computational fluid dynamics (CFD). Volume 1 describes both fundamental and general techniques that are relevant to all branches of fluid

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flow. Volume 2 provides specific techniques, applicable to the different categories of engineering flow behaviour, many of which are also appropriate to convective heat transfer. An underlying theme of the text is that the

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competing

formulations which are suitable for computational fluid dynamics, e.g. the finite difference, finite element, finite volume and spectral methods, are closely related and can be interpreted as part of a unified structure.

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Classroom

experience indicates that this approach assists, considerably, the student in acquiring a deeper understanding of the strengths and weaknesses of the alternative computational methods. Through

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the provision of 24 computer programs and associated examples and problems, the present text is also suitable for established research workers and practitioners who wish to acquire computational skills without the benefit

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of formal instruction.

The text includes
the most up-to-date
techniques and is
supported by more
than 300 figures and
500 references.

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International

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December 14–15,

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Selected Papers

Computational

Techniques for Fluid

Dynamics 1

Design Patterns for

Great Software

An Introduction to

the Formalism of

Quantum

Information with

Continuous

Variables

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Handbook of
Chemometrics and
Qualimetrics
Embedded Systems
Fundamentals with
Arm Cortex-M
Based
Microcontrollers

This book
describes the
field of State-
of-Charge (SoC)
indication for

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rechargeable
batteries. An
overview of the
state-of-the-art
of SoC
indication
methods
including
available market
solutions from
leading
semiconductor
companies is
provided. All

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disciplines are covered, from electrical, chemical, mathematical and measurement engineering to understanding battery behavior. This book will therefore is for persons in engineering and

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involved in
battery
management.

This book covers
all aspects of
inertial
navigation
systems (INS),
including the
sensor
technology and
the estimation
of instrument
errors, as well

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as their
integration with
the Global
Positioning
System (GPS) for
geodetic
applications.
Complete
mathematical
derivations are
given. Both
stabilized and
strapdown
mechanizations

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are treated in detail. Derived algorithms to process sensor data and a comprehensive explanation of the error dynamics provide not only an analytical understanding but also a practical

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implementation of the concepts. A self-contained description of GPS, with emphasis on kinematic applications, is one of the highlights in this book. The text is of interest to geodesists,

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including
surveyors,
mappers, and pho
togrammetrists;
to engineers in
aviation,
navigation,
guidance,
transportation,
and robotics;
and to
scientists
involved in
aerogeophysics

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and remote sensing.

Proper design of printed circuit boards can make the difference between a product passing emissions requirements during the first cycle or not.

Traditional EMC design practices

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have been simply rule-based, that is, a list of rules-of-thumb are presented to the board designers to implement. When a particular rule-of-thumb is difficult to implement, it is often ignored. After the

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product is built, it will often fail emission requirements and various time consuming and costly add-ons are then required. Proper EMC design does not require advanced degrees from

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universities,
nor does it
require
strenuous
mathematics. It
does require a
basic
understanding of
the underlying
principles of
the potential
causes of EMC
emissions. With
this basic

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understanding,
circuit board
designers can
make trade-off
decisions during
the design phase
to ensure
optimum EMC
design.

Consideration of
these potential
sources will
allow the design
to pass the

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emissions

requirements the first time in the test

laboratory. A number of other books have been published on EMC. Most are general books on EMC and do not focus on printed circuit board is intended to help

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EMC engineers and design design. This book engineers understand the potential sources of emissions and how to reduce, control, or eliminate these sources. This book is intended to be a 'hands-

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on' book, that is, designers should be able to apply the concepts in this book directly to their designs in the real-world.

Autonomous
Vehicles Plus: A
Critical
Analysis of
Challenges
Delaying AV

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Nirvana is a valuable compendium of information for autonomous vehicle (AV) industry professionals. The book offers a critical analysis of this emerging technology and business models

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through a
holistic and
multi-faceted
discussion by a
consultant who
has done
extensive
research of
underlying
technologies.
Among other
things,
Autonomous
Vehicles Plus

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provides an independent and comprehensive viewpoint of the history and basic technology concepts of AVs, along with an explanation of their artificial intelligence underpinning, architectural framework, and

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key components.
Here is all the minutiae on driverless cars, including the challenges facing the industry, predictions for their future, advice for entrepreneurs looking to capitalize on

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their emerging importance, and the roiling confusion that attends it all. Autonomous vehicle industry professionals and those seeking a broad understanding of the emerging technology will find much to

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distract and
delight them in
this serious
book. Autonomous
Vehicles Plus
will be of
special interest
to technology
and business
development
professionals
who want to
understand the
fundamentals

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that determine
technology
adoption.
Concepts,
Applications,
Experimentation
and Analysis of
Wireless Sensor
Networks
Making Embedded
Systems
Linear Systems
Accurate State-
of-Charge

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Indication for
Battery-Powered
Applications
Multivariate
General Linear
Models

Designing IoT
solutions with
the IoT

Architectural
Reference Model

*The textbook aims to
present general*

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relativity and modern cosmology in a friendly form suitable for advanced undergraduates. The text begins with a self-contained introduction to the theory of manifolds and then develops the tools needed to understand curved spaces and curved spacetimes.

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Special relativity can then be understood in a geometrical context, bypassing some of the difficulties students have when encountering relativistic effects (e.g. time dilation and length contraction) for the first time. The theory of curvature and its effects leads to

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the Einstein field equations and its classic tests in the precession of Mercury and the deflection of starlight. The second part of the book covers modern cosmology, starting with the evolution equations for the expansion of the universe. The

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microwave

background, evidence for dark matter, and the clustering of galaxies are examined in detail.

This is a pedagogical introduction to the coordinate-free approach in basic finite-dimensional linear algebra. The reader should be

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already exposed to the array-based formalism of vector and matrix calculations. This book makes extensive use of the exterior (anti-commutative, "wedge") product of vectors. The coordinate-free formalism and the exterior product,

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while somewhat more abstract, provide a deeper understanding of the classical results in linear algebra.

Without cumbersome matrix calculations, this text derives the standard properties of determinants, the Pythagorean formula for multidimensional volumes, the formulas

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of Jacobi and Liouville, the Cayley-Hamilton theorem, the Jordan canonical form, the properties of Pfaffians, as well as some generalizations of these results.

Quantum information is an emerging field which has attracted a lot of attention in the last couple of decades.

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It is a broad subject which extends from the most applied questions (e.g. how to build quantum computers or secure cryptographic systems) to the most theoretical problems concerning the formalism and interpretation of quantum mechanics,

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its complexity, and its potential to go beyond classical physics. This book is an introduction to quantum information with special emphasis on continuous-variable systems (such as light) which can be described as collections of harmonic oscillators.

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It covers a selection of basic concepts, focusing on their physical meaning and mathematical treatment. It starts from the very first principles of quantum mechanics, and builds up the concepts and techniques following a logical progression.

This is an excellent

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*Description Nxp
reference for students
with a full semester of
standard quantum
mechanics and
researchers in closely
related fields.*

*Now in its 2nd edition,
this textbook has been
updated on a new
development board
from*

*STMicroelectronics -
the Arm Cortex-M0+*

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based Nucleo-

*F091RC. Designed to
be used in a one- or
two-semester
introductory course
on embedded systems.*

*10th Asian
Conference on
Computer Vision,
Queenstown, New
Zealand, November
8-12, 2010, Revised
Selected Papers, Part*

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III

*PCB Design for Real-
World EMI Control
The Power MOSFET
Application Handbook
Battery Management
Systems
COMPSTAT
Design Engineer's
Guide*

This open access
book constitutes the
refereed post-

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conference

proceedings of the
9th IFIP WG 5.5
International
Precision Assembly
Seminar, IPAS 2020,
held virtually in
December 2020. The
16 revised full papers
and 10 revised short
papers presented
together with 1
keynote paper were
carefully reviewed

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and selected from numerous submissions. The papers address topics such as assembly design and planning; assembly operations; assembly cells and systems; human centred assembly; and assistance methods in assembly. An essential book for 3rd party developers

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and others interested in products using the PowerPC including those from IBM, Apple, and many other vendors. The book covers the architecture for the entire family of processors from either IBM or Motorola and is the official documentation of

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the IBM reference manual.

The new edition of this popular book has been transformed into a hands-on textbook, focusing on the principles of wireless sensor networks (WSNs), their applications, their protocols and standards, and their analysis and test

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tools; a meticulous care has been accorded to the definitions and terminology. To make WSNs felt and seen, the adopted technologies as well as their manufacturers are presented in detail. In introductory computer networking books,

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chapters sequencing follows the bottom up or top down architecture of the seven layers protocol. This book starts some steps later, with chapters ordered based on a topic 's significance to the elaboration of wireless sensor networks (WSNs) concepts and issues.

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With such a depth, this book is intended for a wide audience, it is meant to be a helper and motivator, for both the senior undergraduates, postgraduates, researchers, and practitioners; concepts and WSNs related applications are laid out, research and practical issues

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are backed by appropriate literature, and new trends are put under focus. For senior undergraduate students, it familiarizes readers with conceptual foundations, applications, and practical project implementations. For graduate students

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and researchers, transport layer protocols and cross-layering protocols are presented and testbeds and simulators provide a must follow emphasis on the analysis methods and tools for WSNs. For practitioners, besides applications and deployment, the

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manufacturers and components of WSNs at several platforms and testbeds are fully explored.

Lectures on $NX(p)$ deals with the question on how $NX(p)$, the number of solutions of mod p congruences, varies with p when the family (X) of polynomial equations

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is fixed. While such a general question cannot have a complete answer, it offers a good occasion for reviewing various techniques in l -adic cohomology and group representations, presented in a context that is appealing to

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specialists in number theory and algebraic geometry. Along with covering open problems, the text examines the size and congruence properties of $N_X(p)$ and describes the ways in which it is computed, by closed formulae and/or using efficient computers. The first

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four chapters cover the preliminaries and contain almost no proofs. After an overview of the main theorems on $NX(p)$, the book offers simple, illustrative examples and discusses the Chebotarev density theorem, which is essential in studying Frobenian functions

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and frobenian sets. It also reviews l -adic cohomology. The author goes on to present results on group representations that are often difficult to find in the literature, such as the technique of computing Haar measures in a compact l -adic group by performing a

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similar computation in a real compact Lie group. These results are then used to discuss the possible relations between two different families of equations X and Y . The author also describes the Archimedean properties of $NX(p)$, a topic on which much less is known than in

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the l -adic case.

Following a chapter on the Sato-Tate conjecture and its concrete aspects, the book concludes with an account of the prime number theorem and the Chebotarev density theorem in higher dimensions.

Neural Nets (Wirn Vietri-92) -

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Proceedings Of The
Fifth Italian
Workshop

A Practical Guide
Embedded Software
Development

16th Nordic
Conference on
Security IT Systems,
NordSec 2011, Talinn,
Estonia, 26-28

October 2011,
Revised Selected
Papers

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12th International
Conference, ISPEC
2016, Zhangjiajie,
China, November
16-18, 2016,
Proceedings

BIMD Computer
Programs Manual
Gain the

knowledge and
skills

necessary to
improve your

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software and
benefit from
author Jacob
Beningo's more
than 15 years
developing
reusable and
portable
software for r
esource-
constrained mi

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crocontroller-based systems. You will explore APIs, HALs, and driver development among other topics to acquire a solid foundation for

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improving your
own software.

Reusable

Firmware

Development: A
Practical

Approach to
APIs, HALs and

Drivers not
only explains
critical

concepts, but

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also provides a plethora of examples, exercises, and case studies on how to use and implement the concepts.

What You'll Learn Develop portable firmware using

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the C

programming
language
Discover APIs
and HALs,
explore their
differences,
and see why
they are
important to
developers of
resource-

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constrained
software
Master microco
ntroller
driver
development
concepts,
strategies,
and examples
Write drivers
that are
reusable

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multiple MCU
families and
vendors

Improve the
way software
documented

Design APIs
and HALs for m
icrocontroller-
based systems

Who This Book

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Is For Those
with some
prior
experience
with embedded
programming.
The Internet
of Things
(IoT) is an
emerging
network
superstructure

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that will
connect
physical
resources and
actual users.
It will
support an
ecosystem of
smart
applications
and services
bringing hyper-

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connectivity
to our society
by using
augmented and
rich
interfaces.

Whereas in the
beginning IoT
referred to
the advent of
barcodes and
Radio

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Frequency
Identification
(RFID), which
helped to
automate
inventory,
tracking and
basic identifi
cation, today
IoT is
characterized
by a dynamic

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trend toward
connecting
smart sensors,
objects,
devices, data
and
applications.
The next step
will be
"cognitive
IoT,"
facilitating

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object and
data re-use
across
application
domains and
leveraging hyp
er-
connectivity,
interoperabili
ty solutions
and
semantically

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enriched

information

distribution.

The

Architectural

Reference

Model (ARM),

presented in

this book by

the members of

the IoT-A

project team

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driving this harmonization effort, makes it possible to connect vertically closed systems, architectures and application areas so as to

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create open interoperable systems and integrated environments and platforms. It constitutes a foundation from which software companies can capitalize on

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the benefits of developing consumer-oriented platforms including hardware, software and services. The material is structured in two parts.

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Part A

introduces the general concepts developed for and applied in the ARM. It is aimed at end users who want to use IoT technologies, managers

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interested in understanding the opportunities generated by these novel technologies, and system architects who are interested in an overview of the

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underlying
basic models.
It also
includes
several case
studies to
illustrate how
the ARM has
been used in
real-life
scenarios.
Part B then

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addresses the topic at a more detailed technical level and is targeted at readers with a more scientific or technical background. It provides in-

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depth guidance on the ARM, including a detailed description of a process for generating concrete architectures, as well as reference manuals with

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guidelines on how to use the various models and perspectives presented to create a concrete architecture. Furthermore, best practices and tips on

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how system engineers can use the ARM to develop specific IoT architectures for dedicated IoT solutions are illustrated and exemplified in

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reverse

mapping

exercises of

existing

standards and

platforms.

The Designer's

Guide to the

Cortex-M

Family is a

tutorial-based

book giving

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the key concepts required to develop programs in C with a Cortex M- based processor. The book begins with an overview of the Cortex- M

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family, giving architectural descriptions supported with practical examples, enabling the engineer to easily develop basic C programs to run on the

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Cortex-

M0/M0+/M3 and M4. It then examines the more advanced features of the Cortex architecture such as memory protection, operating modes and dual

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stack

operation.

Once a firm
grounding in
the Cortex M
processor has
been

established

the book

introduces the
use of a small
footprint RTOS

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and the CMSIS
DSP library.

With this book
you will

learn: The key
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between the
Cortex

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M4 How to
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Advanced
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techniques
that can be
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M microcontrol-
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Introduction
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standard
(CMSIS), a
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all Cortex M-
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trollers

Coverage of
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Cortex M3 and
M4 An

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tool chain IDE
and debugger
which allows

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the

accompanying
example

projects to be
run in

simulation on
the PC or on

low cost
hardware

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to signal
integrity,

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updated with
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coverage of
power
integrity,
high-speed
serial links,
and more * * U
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minute
comprehensive
guidance:

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everything
engineers need
to know to
understand and
design for
signal
integrity. *

Authored by
world-renowned
signal
integrity
trainer,

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educator, and
columnist Eric
Bogatin. *

Focuses on
intuitive
understanding,
practical
tools, and
engineering
discipline -
not
theoretical

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derivation or
mathematical
rigor. Today's
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demands faster
devices and
systems that
deliver more
functionality
and longer
life in
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all of those
challenges.
Renowned
expert Eric
Bogatin
thoroughly
reviews the
root causes of
all four
families of
signal

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integrity
problems, and
shows how to
design them
out early in
the design
cycle. Drawing
on his
experience
teaching
5,000+
engineers, he

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illuminates
signal
integrity,
physical
design,
bandwidth,
inductance,
and impedance;
presents
practical
tools for
solving signal

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integrity
problems; and
offers
specific
design
guidelines and
solutions. In
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extensive
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networks to support high-speed signal processing. * Using 4-Port S-parameters, the emerging standard for describing interconnects in high speed serial links.

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and simulation
tools and
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Enabling
Things to Talk
Computational
Statistics and
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Methods in
Intelligent
Systems
Proceedings in
Computational
Statistics,
7th Symposium
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1986
Fundamental
and General
Techniques

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The Messenger
of Mathematics
A Critical
Analysis of
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Delaying AV
Nirvana

This book constitutes
the refereed
proceedings of the
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Secure IT Systems, NordSec 2011, held in Tallinn, Estonia, October 26-28, 2011.

The 16 revised papers presented together with 2 invited talks were carefully reviewed and selected from 51 submissions. The papers are organized in topical sections on

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cryptography,
commercial security
policies and their
enforcement,
communication and
network security,
security modeling
and metrics,
economics, law and
social aspects of
security, and
software security

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and malware.

The Designer's
Guide to the Cortex-
M Processor Family
A Tutorial Approach
Designing Embedded
Systems and the
Internet of Things
(IoT) with the ARM
mbed

Effective Action
Calculation in
Lattice QCD

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A Practical

Approach to APIs,
HALs and Drivers
Lectures on N_X(p)