

Access Free Usrp2 Guide Getting Started

Usrp2 Guide Getting Started

This book constitutes the thoroughly refereed conference proceedings of the 12th International Conference on Cognitive Radio Oriented Wireless

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Networks, CROWNCOM 2017, held in Lisbon, Portugal, in September 2017. The 28 revised full papers presented were carefully reviewed and selected from numerous submissions and cover the evolution of cognitive radio technology pertaining to 5G networks. The papers are clustered to

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topics on spectrum management; network management; trials, test beds, and tools; PHY and sensing; spectrum management.

Starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first

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chapter is the basis for more than 30 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms

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with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has

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a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

For one- or two-semester, senior-level undergraduate courses in Communication Systems for Electrical

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and Computer Engineering majors. This text introduces the basic techniques used in modern communication systems and provides fundamental tools and methodologies used in the analysis and design of these systems. The authors emphasize digital communication

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systems, including new generations of wireless communication systems, satellite communications, and data transmission networks. A background in calculus, linear algebra, basic electronic circuits, linear system theory, and probability and random variables is assumed.

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Andrew McCarthy grows concerned for his family after he catches a young man, Zachary Denton, photographing his daughter, Grace McCarthy, and other children at a park. To his dismay, Zachary talks his way out of trouble when he's confronted by the police. He hopes

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that's the end of it. Then he finds Zachary at a diner and then at a grocery store. He knows their encounters aren't coincidences. And just as Andrew prepares to defend his family, Grace vanishes. As the police search stalls and the leads dry up, Andrew decides to take matters into

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his own hands. He starts by searching for sex offenders in the area and researching enhanced interrogation techniques... He convinces himself he'll do anything to rescue his daughter, unaware of the pure evil he'll face in his journey. He's willing to hurt-to torture-anyone to save his

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family. Jon Athan, the author of Into the Wolves' Den and The Abuse of Ashley Collins, delves into the underworld of internet predators in this disturbing horror novel. Are your children safe? **WARNING:** This book contains graphic content. Reader discretion is advised.

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Using Snort and Ethereal to Master
The 8 Layers of An Insecure Network
Internet of Things (IoT)
Multi-Standard CMOS Wireless
Receivers: Analysis and Design
A Software-Defined GPS and Galileo
Receiver
Hacking Exposed Wireless

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International Conference, DICTAP
2011, Dijon, France, June 21-23,
2011. Proceedings

This book explore the use of new technologies in the area of satellite navigation receivers. In order to construct a

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reconfigurable receiver with a wide range of applications, the authors discuss receiver architecture based on software-defined radio techniques. The presentation unfolds in a user-friendly style and goes from the

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basics to cutting-edge research. The book is aimed at applied mathematicians, electrical engineers, geodesists, and graduate students. It may be used as a textbook in various GPS technology and signal

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processing courses, or as a self-study reference for anyone working with satellite navigation receivers.

All the expert guidance you need to understand, build, and operate GPS receivers The Second

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Edition of this acclaimed publication enables readers to understand and apply the complex operation principles of global positioning system (GPS) receivers. Although GPS receivers are widely used in

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everyday life to aid in positioning and navigation, this is the only text that is devoted to complete coverage of their operation principles. The author, one of the foremost authorities in the GPS field, presents the

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material from a software receiver viewpoint, an approach that helps readers better understand operation and that reflects the forecasted integration of GPS receivers into such everyday devices as cellular

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telephones. Concentrating on civilian C/A code, the book provides the tools and information needed to understand and exploit all aspects of receiver technology as well as relevant navigation

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schemes: Overview of GPS basics and the constellation of satellites that comprise the GPS system Detailed examination of GPS signal structure, acquisition, and tracking Step-by-step presentation of the

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mathematical formulas
for calculating a user's position
Demonstration of the use of
computer programs to run
key equations Instructions for
developing hardware to collect
digitized data for a software GPS

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receiver Complete chapter demonstrating a GPS receiver following a signal flow to determine a user's position The Second Edition of this highly acclaimed text has been greatly expanded, including three new

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chapters: Acquisition of weak signals
Tracking of weak signals
GPS receiver related subjects
Following the author's expert guidance and easy-to-follow style,engineers and scientists learn all that is needed to

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understand, build, and operate GPS receivers. The book's logical flow from basic concepts to applications makes it an excellent textbook for upper-level undergraduate and graduate students in electrical engineering,

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wireless communications, and computer science.

"Industrial Maintenance and Mechatronics provides support for an Industrial Technology Maintenance (ITM) program. It covers the principal industrial

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technology disciplines, with a focus on electrical systems and electronic controls. It provides students with the necessary knowledge for entry-level positions in industrial maintenance and prepares them

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for NIMS Level 1 credentialing"--
This book discusses the security issues in a wide range of wireless devices and systems, such as RFID, Bluetooth, ZigBee, GSM, LTE, and GPS. It collects the findings of recent research

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by the UnicornTeam at 360 Technology, and reviews the state-of-the-art literature on wireless security. The book also offers detailed case studies and theoretical treatments – specifically it lists numerous

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laboratory procedures, results, plots, commands and screenshots from real-world experiments. It is a valuable reference guide for practitioners and researchers who want to learn more about the advanced

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research findings and use the off-the-shelf tools to explore the wireless world.

A Software Approach

Fundamentals of Global

Positioning System Receivers

Getting Started with OpenBTS

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Object-Oriented Approaches to
Wireless Systems Engineering
The Stranger's Guide to Hampton
Court Palace and Gardens
A Single-Frequency Approach
Secure Your Wireless Networks
the Hacking Exposed Way Defend

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against the latest pervasive and devastating wireless attacks using the tactical security information contained in this comprehensive volume. Hacking Exposed Wireless reveals how hackers zero in on susceptible networks and peripherals, gain

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access, and execute debilitating attacks. Find out how to plug security holes in Wi-Fi/802.11 and Bluetooth systems and devices. You'll also learn how to launch wireless exploits from Metasploit, employ bulletproof authentication and encryption,

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and sidestep insecure wireless hotspots. The book includes vital details on new, previously unpublished attacks alongside real-world countermeasures. Understand the concepts behind RF electronics, Wi-Fi/802.11, and Bluetooth Find out how hackers

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use NetStumbler, WiSPY, Kismet, KisMAC, and AiroPeek to target vulnerable wireless networks
Defend against WEP key brute-force, aircrack, and traffic injection hacks
Crack WEP at new speeds using Field Programmable Gate Arrays or your spare PS3

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CPU cycles Prevent rogue AP and certificate authentication attacks
Perform packet injection from Linux Launch DoS attacks using device driver-independent tools
Exploit wireless device drivers using the Metasploit 3.0 Framework Identify and avoid

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**malicious hotspots Deploy
WPA/802.11i authentication and
encryption using PEAP,
FreeRADIUS, and WPA pre-shared
keys**

**The latest wireless security
solutions Protect your wireless
systems from crippling attacks**

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using the detailed security information in this comprehensive volume.

Thoroughly updated to cover today's established and emerging wireless technologies, Hacking Exposed Wireless, second edition reveals how attackers use readily

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available and custom tools to target, infiltrate, and hijack vulnerable systems. This book discusses the latest developments in Wi-Fi, Bluetooth, ZigBee, and DECT hacking, and explains how to perform penetration tests,

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reinforce WPA protection schemes, mitigate packet injection risk, and lock down Bluetooth and RF devices. Cutting-edge techniques for exploiting Wi-Fi clients, WPA2, cordless phones, Bluetooth pairing, and ZigBee encryption

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are also covered in this fully revised guide. Build and configure your Wi-Fi attack arsenal with the best hardware and software tools Explore common weaknesses in WPA2 networks through the eyes of an attacker Leverage post-

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**compromise remote client
attacks on Windows 7 and Mac
OS X Master attack tools to
exploit wireless systems,
including Aircrack-ng, coWPAtty,
Pyrit, IPPON, FreeRADIUS-WPE,
and the all new KillerBee
Evaluate your threat to software**

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update impersonation attacks on public networks Assess your threat to eavesdropping attacks on Wi-Fi, Bluetooth, ZigBee, and DECT networks using commercial and custom tools Develop advanced skills leveraging Software Defined Radio and

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**other flexible frameworks Apply
comprehensive defenses to
protect your wireless devices and
infrastructure**

**Gain the essential grammar skills
needed to communicate more
confidently in Spanish!**

Developing a good grasp of

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grammar is key to mastering a foreign language. This bestselling guide provides comprehensive coverage of all the elements of Spanish grammar. Each grammatical concept is clarified and then illustrated with lively example

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sentences. More than 400 exercises provide you with plenty of practice to apply this knowledge in everyday conversation. The exercises are contextualized with scene-setting instructions in Spanish to ensure relevance to practice

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conversational and writing requirements. With this edition, you'll also have access to the unique McGraw-Hill Education Language app featuring extensive audio recordings and interactive quizzes. The app makes it easy to study on-the-go,

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test your comprehension, and hone your new language skills. The Ultimate Spanish Review and Practice, 4th Edition features:

- **More than 400 engaging exercises**
- **A pre-test to identify your existing strengths and weaknesses**
- **A post-test for**

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**assessing your
progress • Flashcards for all the
vocabulary lists with progress
tracking • Extensive audio
exercises to test your listening
comprehension • Interactive
quizzes, and more
Software Defined Radio makes**

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wireless communications easier, more efficient, and more reliable. This book bridges the gap between academic research and practical implementation. When beginning a project, practicing engineers, technical managers, and graduate students can save

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countless hours by considering the concepts presented in these pages. The author covers the myriad options and trade-offs available when selecting an appropriate hardware architecture. As demonstrated here, the choice between

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hardware- and software-centric architecture can mean the difference between meeting an aggressive schedule and bogging down in endless design iterations. Because of the author's experience overseeing dozens of failed and successful

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developments, he is able to present many real-life examples. Some of the key concepts covered are: Choosing the right architecture for the market - laboratory, military, or commercial, Hardware platforms - FPGAs, GPPs, specialized and

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hybrid devices, Standardization efforts to ensure interoperability and portability. State-of-the-art components for radio frequency, mixed-signal, and baseband processing. The text requires only minimal knowledge of wireless communications;

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whenever possible, qualitative arguments are used instead of equations. An appendix provides a quick overview of wireless communications and introduces most of the concepts the readers will need to take advantage of the material. An essential

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**introduction to SDR, this book is
sure to be an invaluable addition
to any technical bookshelf.**

**The Ultimate Spanish Review and
Practice, 4th Edition**

Wireless Sensor Networks

**A Modern Approach to Radio
Engineering**

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**Digital Communication Systems
Engineering with Software-
Defined Radio
Intelligent Feature Selection for
Machine Learning Using the
Dynamic Wavelet Fingerprint
International Conference, DICTAP
2011, Dijon, France, June 21-23,**

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2011. Proceedings, Part II

This books objective is to explore the concepts and applications related to Internet of Things with the vision to identify and address existing challenges. Additionally, the book provides future research

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directions in this domain, and explores the different applications of IoT and its associated technologies. Studies investigate applications for crowd sensing and sourcing, as well as smart applications to healthcare

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solutions, agriculture and intelligent disaster management. This book will appeal to students, practitioners, industry professionals and researchers working in the field of IoT and its integration with other technologies

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to develop comprehensive solutions to real-life problems Simulation is integral to the successful design of modern radar systems, and there is arguably no better software for this purpose than MATLAB. But software and

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*the ability to use it does not guarantee success. One must also: Understand radar operations and design philosophy Know how to select the radar parameters to meet the design req
This book, written by experts from*

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universities and major industrial research laboratories, is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks. Selected highly relevant advanced

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research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping, biomimetic learning for self-organizing networks, security threats (with a special focus on primary user

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emulation attack), and cognition as a tool for green next-generation networks. The research activities covered include work undertaken within the framework of the European COST Action IC0902, which is geared towards the

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definition of a European platform for cognitive radio and networks. Communications engineers, R&D engineers, researchers, and students will all benefit from this complete reference on recent advances in wireless

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*communications and the design
and implementation of cognitive
radio systems and networks.
Understand the RF and Digital
Signal Processing Principles
Driving Software-defined Radios!
Software-defined radio (SDR)*

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technology is a configurable, low cost, and power efficient solution for multimode and multistandard wireless designs. This book describes software-defined radio concepts and design principles from the perspective of RF and

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digital signal processing as performed within this system. After an introductory overview of essential SDR concepts, this book examines signal modulation techniques, RF and digital system analysis and requirements,

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Nyquist and oversampled data conversion techniques, and multirate digital signal processing..

KEY TOPICS • Modulation techniques Master analog and digital modulation schemes • RF system-design parameters

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Examine noise and link budget analysis and Non-linear signal analysis and design methodology

- Essentials of baseband and bandpass sampling and gain control IF sampling architecture compared to traditional*

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quadrature sampling, Nyquist zones, automatic gain control, and filtering • Nyquist sampling converter architectures Analysis and design of various Nyquist data converters • Oversampled data converter architectures Analysis

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and design of continuous-time and discrete-time Delta-Sigma converters • Multirate signal processing Gain knowledge of interpolation, decimation, and fractional data rate conversion

**Offers readers a powerful set of*

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*analytical and design tools *Details
real world designs*

**Comprehensive coverage makes
this a must have in the*

RF/Wireless industry

Cognitive Radio Networks

Selected Advances on Spectrum

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*Sensing, Learning, and Security
Approaches*

iOS Hacker's Handbook

Concepts and Applications

In Battle for Peace

*Classical and Modern Direction-of-
Arrival Estimation*

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"This unique resource provides you with a practical approach to quickly learning the software-defined radio concepts you need to know for your work in the field. By prototyping and evaluating actual digital communication systems capable of

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performing "over-the-air" wireless data transmission and reception, this volume helps you attain a first-hand understanding of critical design trade-offs and issues. Moreover you gain a sense of the actual "real-world" operational behavior of these systems.

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With the purchase of the book, you gain access to several ready-made Simulink experiments at the publisher's website. This collection of laboratory experiments, along with several examples, enables you to successfully implement the designs discussed the

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book in a short period of time. These files can be executed using MATLAB version R2011b or later. "

Discover all the security risks and exploits that can threaten iOS-based mobile devices iOS is Apple's mobile operating system for the iPhone and

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iPad. With the introduction of iOS5, many security issues have come to light. This book explains and discusses them all. The award-winning author team, experts in Mac and iOS security, examines the vulnerabilities and the internals of

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iOS to show how attacks can be mitigated. The book explains how the operating system works, its overall security architecture, and the security risks associated with it, as well as exploits, rootkits, and other payloads developed for it. Covers iOS

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security architecture, vulnerability hunting, exploit writing, and how iOS jailbreaks work Explores iOS enterprise and encryption, code signing and memory protection, sandboxing, iPhone fuzzing, exploitation, ROP payloads, and baseband attacks Also

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examines kernel debugging and exploitation Companion website includes source code and tools to facilitate your efforts iOS Hacker's Handbook arms you with the tools needed to identify, understand, and foil iOS attacks.

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Deploy your own private mobile network with OpenBTS, the open source software project that converts between the GSM and UMTS wireless radio interface and open IP protocols. With this hands-on, step-by-step guide, you'll learn how to use OpenBTS to

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construct simple, flexible, and inexpensive mobile networks with software. OpenBTS can distribute any internet connection as a mobile network across a large geographic region, and provide connectivity to remote devices in the Internet of

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Things. Ideal for telecom and software engineers new to this technology, this book helps you build a basic OpenBTS network with voice and SMS services and data capabilities. From there, you can create your own niche product or experimental feature. Select hardware,

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and set up a base operating system for your project Configure, troubleshoot, and use performance-tuning techniques Expand to a true multinode mobile network complete with Mobility and Handover Add general packet radio service (GPRS) data connectivity, ideal

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for IoT devices Build applications on top of the OpenBTS NodeManager control and event APIs

This book discusses various applications of machine learning using a new approach, the dynamic wavelet fingerprint technique, to identify

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features for machine learning and pattern classification in time-domain signals. Whether for medical imaging or structural health monitoring, it develops analysis techniques and measurement technologies for the quantitative characterization of

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materials, tissues and structures by non-invasive means. Intelligent Feature Selection for Machine Learning using the Dynamic Wavelet Fingerprint begins by providing background information on machine learning and the wavelet fingerprint technique. It

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then progresses through six technical chapters, applying the methods discussed to particular real-world problems. These chapters are presented in such a way that they can be read on their own, depending on the reader's area of interest, or read

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together to provide a comprehensive overview of the topic. Given its scope, the book will be of interest to practitioners, engineers and researchers seeking to leverage the latest advances in machine learning in order to develop solutions to practical problems in

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structural health monitoring, medical imaging, autonomous vehicles, wireless technology, and historical conservation.

European GNSS (Galileo) Open Service

Linux Security Secrets and Solutions

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Fundamentals and Applications

Digital Communications

Hacking Exposed Linux

RF and Digital Signal Processing for

Software-Defined Radio

Cognitive Radio

Communications and

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Networks gives comprehensive and balanced coverage of the principles of cognitive radio communications, cognitive networks, and details of their implementation, including the latest developments in the

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standards and spectrum policy. Case studies, end-of-chapter questions, and descriptions of various platforms and test beds, together with sample code, give hands-on knowledge of how cognitive radio systems

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can be implemented in practice. Extensive treatment is given to several standards, including IEEE 802.22 for TV White Spaces and IEEE SCC41
Written by leading people in the field, both at universities and major industrial research

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laboratories, this tutorial text gives communications engineers, R&D engineers, researchers, undergraduate and post graduate students a complete reference on the application of wireless communications and network

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***theory for the design and implementation of cognitive radio systems and networks
Each chapter is written by internationally renowned experts, giving complete and balanced treatment of the fundamentals of both***

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***cognitive radio
communications and cognitive
networks, together with
implementation details
Extensive treatment of the
latest standards and spectrum
policy developments enables
the development of compliant***

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***cognitive systems Strong
practical orientation -
through case studies and
descriptions of cognitive radio
platforms and testbeds -
shows how real world
cognitive radio systems and
network architectures have***

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been built Alexander M. Wyglinski is an Assistant Professor of Electrical and Computer Engineering at Worcester Polytechnic Institute (WPI), Director of the WPI Limerick Project Center, and Director of the

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***Wireless Innovation
Laboratory (WI Lab) Each
chapter is written by
internationally renowned
experts, giving complete and
balanced treatment of the
fundamentals of both
cognitive radio***

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communications and cognitive networks, together with implementation details Extensive treatment of the latest standards and spectrum policy developments enables the development of compliant cognitive systems Strong

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***practical orientation -
through case studies and
descriptions of cognitive radio
platforms and testbeds -
shows how "real world"
cognitive radio systems and
network architectures have
been built***

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A software radio is a radio whose channel modulation waveforms are defined in software. All wireless telephones are controlled by this software. Written by the leader in the field, this book covers the technology that

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will allow cellular telephones to greatly expand the types of data they can transmit.

This two-volume set CCIS 166 and 167 constitutes the refereed proceedings of the International Conference on Digital Information and

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Communication Technology and its Applications, DICTAP 2011, held in Dijon, France, in June 2010. The 128 revised full papers presented in both volumes were carefully reviewed and selected from 330 submissions. The papers

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are organized in topical sections on Web applications; image processing; visual interfaces and user experience; network security; ad hoc network; cloud computing; Data Compression; Software

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***Engineering; Networking and
Mobiles; Distributed and
Parallel processing; social
networks; ontology;
algorithms; multimedia; e-
learning; interactive
environments and emergent
technologies for e-learning;***

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signal processing; information and data management.

Giving a basic overview of the technologies supporting cognitive radio this introductory-level text follows a logical approach, starting with the physical layer and

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concluding with applications and general issues. It provides a background to advances in the field of cognitive radios and a new exploration of how these radios can work together as a network.

Cognitive Radio Networks

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starts with an introduction to the fundamentals of wireless communications, introducing technologies such as OFDM & MIMO. It moves onto cover software defined radio and explores and contrasts wireless, cooperative and

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cognitive networks and communications. Spectrum sensing, medium access control and network layer design are examined before the book concludes by covering the topics of trusted cognitive radio networks and

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***spectrum management.
Unique in providing a brief
but clear tutorial and
reference to cognitive radio
networks this book is a single
reference, written at the
appropriate level for
newcomers as well as***

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providing an encompassing text for those with more knowledge of the subject. One of the first books to provide a systematic description of cognitive radio networks Provides pervasive background knowledge

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including both wireless communications and wireless networks Written by leading experts in the field Full network stack investigation Digital Signal Processing with Field Programmable Gate Arrays

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***Concepts, Applications,
Experimentation and Analysis
Cognitive Radio Oriented
Wireless Networks
Cognitive Radio
Communications and
Networks
Software Radio***

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Industrial Maintenance and Mechatronics

This guide to radio engineering covers every technique DSP and RF engineers need to build software radios for a wide variety of wireless systems

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using DSP techniques. Included are practical guidelines for choosing DSP microprocessors, and systematic, object-oriented software design techniques.

This is the first book on the

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subject of multi-standard wireless receivers. It covers both the analysis and design aspects of CMOS radio receivers, with primary focus on receivers for mobile terminals. The subject of multi-

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standard data converter design for base stations is also covered.

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-

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Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly

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prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting.

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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

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division multiplexing is 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

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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.

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IT Convergence and Services is proceedings of the 3rd FTRA International Conference on Information Technology Convergence and Services (ITCS-11) and the FTRA International Conference on

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Intelligent Robotics,
Automations,
telecommunication facilities,
and applications (IRoA-11). The
topics of ITCS and IRoA cover
the current hot topics
satisfying the world-wide ever-

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changing needs. The ITCS-11 will be the most comprehensive conference focused on the various aspects of advances in information technology convergence, applications, and services. The

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ITCS-11 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of ITCS. In addition, the conference will publish high quality papers

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which are closely related to the various theories, modeling, and practical applications in ITCS. The main scope of ITCS-11 is as follows. Computational Science and Applications
Electrical and Electronics

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Engineering and Technology
Manufacturing Technology and
Services Management
Information Systems and
Services Electronic Commerce,
Business and Management
Vehicular Systems and

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Communications Bio-inspired
Computing and Applications IT
Medical Engineering Modeling
and Services for Intelligent
Building, Town, and City The
IRoA is a major forum for
scientists, engineers, and

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practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of intelligent robotics and automations. The main scope of IROA-11 is as

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follows. Intelligent Robotics & Perception systems
Automations & Control
Telecommunication Facilities
Artificial Intelligence The IROA is a major forum for scientists, engineers, and practitioners

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throughout the world to present the latest research, results, ideas, developments and applications in all areas of intelligent robotics and automations. The main scope of IROA-11 is as follows.

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Intelligent Robotics &
Perception systems
Automations & Control
Telecommunication Facilities
Artificial Intelligence
Digital Information and
Communication Technology

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and Its Applications

Archie 3000

Software Radio Architecture

The Folded Normal Distribution

Software-Defined Radio for
Engineers

Getting Started with

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Getting Started

OpenBTS "O'Reilly Media,
Inc."

This book focuses on the principles of wireless sensor networks (WSNs), their applications, and their analysis tools,

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with meticulous attention paid to definitions and terminology. This book presents the adopted technologies and their manufacturers in detail,

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making WSNs tangible for the reader. In introductory computer networking books, chapter sequencing follows the bottom-up or top-down architecture of

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the 7-layer protocol.
This book addresses
subsequent steps in this
process, both
horizontally and
vertically, thus
fostering a clearer and

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deeper understanding through chapters that elaborate on WSN concepts and issues. With such depth, this book is intended for a wide audience; it is

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meant to be a helper and motivator for senior undergraduates, postgraduates, researchers, and practitioners. It lays out important concepts

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and WSN-relate
applications; uses
appropriate literature
to back research and
practical issues; and
focuses on new trends.
Senior undergraduate

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students can use it to familiarize themselves with conceptual foundations and practical project implementations. For graduate students and

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researchers, test beds and simulators provide vital insights into analysis methods and tools for WSNs. Lastly, in addition to applications and

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deployment, practitioners will be able to learn more about WSN manufacturers and components within several platforms and test beds.

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The Latest Linux Security Solutions This authoritative guide will help you secure your Linux network--whether you use Linux as a desktop OS, for Internet

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services, for
telecommunications, or
for wireless services.
Completely rewritten the
ISECOM way, Hacking
Exposed Linux, Third
Edition provides the

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most up-to-date coverage available from a large team of topic-focused experts. The book is based on the latest ISECOM security research and shows you, in full

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detail, how to lock out intruders and defend your Linux systems against catastrophic attacks. Secure Linux by using attacks and countermeasures from the

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latest OSSTMM research
Follow attack techniques
of PSTN, ISDN, and PSDN
over Linux Harden VoIP,
Bluetooth, RF, RFID, and
IR devices on Linux
Block Linux signal

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jamming, cloning, and
eavesdropping attacks
Apply Trusted Computing
and cryptography tools
for your best defense
Fix vulnerabilities in
DNS, SMTP, and Web 2.0

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services Prevent SPAM,
Trojan, phishing, DoS,
and DDoS exploits Find
and repair errors in C
code with static
analysis and Hoare Logic
ARCHIE 3000 is the

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complete collection
featuring the classic
series. This is
presented in the new
higher-end format of
Archie Comics Presents,
which offers 200+ pages

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at a value while taking
a design cue from
successful all-ages
graphic novels. Travel
to the 31st Century with
Archie and his friends!
In the year 3000,

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Riverdale is home to
hoverboards,
intergalactic travel,
alien life and
everyone's favorite
space case, Archie!
Follow the gang as they

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encounter detention robots, teleporters, wacky fashion trends and much more. Will the teens of the future get in as much trouble as the ones from our time?

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Real-Time Digital Signal
Processing from MATLAB
to C with the TMS320C6x
DSK

IT Convergence and
Services

The Story of My 83rd

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Getting Started

Birthday

Hacking Exposed

Wireless, Second Edition

A Multi-Standard Multi-
Mode Approach

Cognitive Communication
and Cooperative HetNet

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Coexistence

We consider first the folded normal probability density function, especially as it relates to the original normal population from which it

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came. We present some maximum likelihood estimates, followed by other estimating procedures which are simpler to handle...Finally, an

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example of real camber data is presented with the appropriate estimation of the theoretical distributions. Some remarks of the folded normal and other work

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being done on this
conclude the paper.
This two-volume set CCIS
166 and CCIS 167
constitutes the refereed
proceedings of the
International Conference

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on Digital Information and
Communication Technology
and its Applications,
DICTAP 2011, held in
Dijon, France, in June
2010. The 128 revised full
papers presented in both

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volumes were carefully reviewed and selected from 330 submissions. The papers are organized in topical sections on Web applications; image processing; visual

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interfaces and user
experience; network
security; ad hoc network;
cloud computing; Data
Compression; Software
Engineering; Networking
and Mobiles; Distributed

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and Parallel processing;
social networks; ontology;
algorithms; multimedia; e-
learning; interactive
environments and emergent
technologies for e-
learning; signal

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processing; information and data management. From personal music players to anti-lock brakes and advanced digital flight controllers, the demand

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for real-time digital signal processing (DSP) continues to grow.

Mastering real-time DSP is one of the most challenging and time-consuming pursuits in the

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field, exacerbated by the lack of a resource that solidly bridges the gap between theory and practice. Recognizing that there is a better way forward, accomplished

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experts Welch, Wright, and Morrow offer Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSK. This book collects all of the necessary tools in a

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single, field-tested source of unrivaled authority. The authors seamlessly integrate theory with easy-to-use, inexpensive hardware and software tools in an

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approachable and hands-on manner. Using abundant examples and exercises in a step-by-step approach, they work from familiar interfaces such as MATLAB® to running algorithms in

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real-time on industry-standard DSP hardware. For each concept, the book uses a four-step methodology: a brief review of relevant theory; demonstration of the

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concept in winDSK6, an easy-to-use software tool; explanation and demonstration of MATLAB techniques for implementation; and explanation of the

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necessary C code to implement the algorithms in real time. Covering a broad spectrum of topics in a hands-on, concise, and approachable way, Real-Time Digital Signal

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Processing from MATLAB to C with the TMS320C6x DSK paves the way toward mastery of real-time DSP. Essential source code is available for download. W. E. B. Du Bois was a

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public intellectual, sociologist, and activist on behalf of the African American community. He profoundly shaped black political culture in the United States through his

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founding role in the NAACP, as well as internationally through the Pan-African movement. Du Bois's sociological and historical research on African-American

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communities and culture broke ground in many areas, including the history of the post-Civil War Reconstruction period. Du Bois was also a prolific author of novels,

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autobiographical accounts, innumerable editorials and journalistic pieces, and several works of history. One of the most neglected and obscure books by W. E. B. Du Bois, *In Battle for*

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Peace frankly documents Du Bois's experiences following his attempts to mobilize Americans against the emerging conflict between the United States and the Soviet Union. A

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victim of McCarthyism, Du Bois endured a humiliating trial—he was later acquitted—and faced political persecution for over a decade. Part autobiography and part

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political statement, In Battle for Peace remains today a powerful analysis of race in America. With a series introduction by editor Henry Louis Gates, Jr., and an introduction

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by Manning Marable, this edition is essential for anyone interested in African American history. Inside Radio: An Attack and Defense Guide
MATLAB Simulations for

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Radars Systems Design
Wireless Security Secrets
and Solutions
ITCS & IRoA 2011
Hack the Stack
Signal in Space Interface
Control Document

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The clear, easy-to-understand introduction to digital communications Completely updated coverage of today's most critical technologies Step-by-step implementation coverage Trellis-coded modulation, fading channels,

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Reed-Solomon codes, encryption, and more Exclusive coverage of maximizing performance with advanced "turbo codes" "This is a remarkably comprehensive treatment of the field, covering in considerable detail modulation,

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coding (both source and channel), encryption, multiple access and spread spectrum. It can serve both as an excellent introduction for the graduate student with some background in probability theory or as a valuable reference for the

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practicing communication system engineer. For both communities, the treatment is clear and well presented." - Andrew Viterbi, The Viterbi Group Master every key digital communications technology, concept, and technique. Digital

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Communications, Second Edition is a thoroughly revised and updated edition of the field's classic, best-selling introduction. With remarkable clarity, Dr. Bernard Sklar introduces every digital communication technology at the

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heart of today's wireless and Internet revolutions, providing a unified structure and context for understanding them -- all without sacrificing mathematical precision. Sklar begins by introducing the fundamentals of signals, spectra,

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formatting, and baseband transmission. Next, he presents practical coverage of virtually every contemporary modulation, coding, and signal processing technique, with numeric examples and step-by-step implementation guidance.

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Coverage includes: Signals and processing steps: from information source through transmitter, channel, receiver, and information sink Key tradeoffs: signal-to-noise ratios, probability of error, and bandwidth expenditure Trellis-

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coded modulation and Reed-Solomon codes: what's behind the math Synchronization and spread spectrum solutions Fading channels: causes, effects, and techniques for withstanding fading The first complete how-to guide to

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turbo codes: squeezing maximum performance out of digital connections Implementing encryption with PGP, the de facto industry standard Whether you're building wireless systems, xDSL, fiber or coax-based services,

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satellite networks, or Internet infrastructure, Sklar presents the theory and the practical implementation details you need. With nearly 500 illustrations and 300 problems and exercises, there's never been a faster way to

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comprehensive DSP tutorial, and over 50 additional communications exercises.

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are: Classical methods of direction finding
Practical DF methods used in commercial systems
Calibration in antenna arrays
Array mapping, fast algorithms and wideband processing
Spatial time-frequency distributions for DOA estimation

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DOA estimation in threshold region
Higher order statistics for DOA
estimation Localization in sensor
networks and direct position
estimation Brings together in one
book classical and modern DOA
techniques, showing the

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connections between them
Contains contributions from the
leading people in the field Gives a
concise and easy- to- read
introduction to the classical
techniques Evaluates the strengths
and weaknesses of key super-

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resolution techniques Includes applications to sensor networks This book looks at network security in a new and refreshing way. It guides readers step-by-step through the "stack" -- the seven layers of a network. Each chapter

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focuses on one layer of the stack along with the attacks, vulnerabilities, and exploits that can be found at that layer. The book even includes a chapter on the mythical eighth layer: The people layer. This book is designed to offer

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readers a deeper understanding of many common vulnerabilities and the ways in which attacker's exploit, manipulate, misuse, and abuse protocols and applications. The authors guide the readers through this process by using tools

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such as Ethereal (sniffer) and Snort (IDS). The sniffer is used to help readers understand how the protocols should work and what the various attacks are doing to break them. IDS is used to demonstrate the format of specific signatures

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and provide the reader with the skills needed to recognize and detect attacks when they occur. What makes this book unique is that it presents the material in a layer by layer approach which offers the readers a way to learn

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about exploits in a manner similar to which they most likely originally learned networking. This methodology makes this book a useful tool to not only security professionals but also for networking professionals,

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application programmers, and others. All of the primary protocols such as IP, ICMP, TCP are discussed but each from a security perspective. The authors convey the mindset of the attacker by examining how seemingly small

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flaws are often the catalyst of potential threats. The book considers the general kinds of things that may be monitored that would have alerted users of an attack. * Remember being a child and wanting to take something

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apart, like a phone, to see how it worked? This book is for you then as it details how specific hacker tools and techniques accomplish the things they do. * This book will not only give you knowledge of security tools but will provide you

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the ability to design more robust security solutions * Anyone can tell you what a tool does but this book shows you how the tool works

Fundamentals of Communication Systems

Implementing Software Defined

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Radio

The Groomer

12th International Conference,
CROWNCOM 2017, Lisbon,
Portugal, September 20-21, 2017,
Proceedings

Principles and Practice