

Getting Started Guide Usrp2

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USRP-2940/2942/2943/2944/2945 Getting Started Guide ...
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Usrp2 User Guide Usrp2 Users Guide The USRP2 communicates at the IP/UDP layer over the gigabit Ethernet. The default IP address of the USRP2 is 192.168.10.2. You will need to configure the host's Ethernet interface with a static IP address to enable communication. An address of 192.168.10.1 and a subnet mask of 255.255.255.0 is recommended.

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USRP N300, DC Power Supply (12V, 7A) 1 RJ45 – SFP+ Adapter; 1 Gigabit Ethernet Cat-5e Cable (3m) USB-A to Micro USB-B Cable (1m) Getting Started Guide

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

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

Software Defined Radio makes 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 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 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 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 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; 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 introduction to SDR, this book is sure to be an invaluable addition to any technical bookshelf.

Secure Your Wireless Networks the Hacking Exposed Way Defend 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 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, 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 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 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 malicious hotspots Deploy WPA/802.11 authentication and encryption using PEAP, FreeRADIUS, and WPA pre-shared keys

This book, written by experts from 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 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 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 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 communications and the design and implementation of cognitive radio systems and networks.

Discover all the security risks and exploits that can threateniOS-based mobile devices iOS is Apple's mobile operating system for the iPhone and iPad.With the introduction of iOS5, many security issues have come tolight. This book explains and discusses them all. The award-winningauthor team, experts in Mac and iOS security, examines thevulnerabilities and the internals of iOS to show how attacks can be mitigated. The book explains how the operating system works, itsoverall security architecture, and the security risks associatedwith it, as well as exploits, rootkits, and other payloadsdeveloped for it. Covers iOS security architecture, vulnerability hunting,exploit writing, and how iOS jailbreaks work Explores iOS enterprise and encryption, code signing and memoryprotection, sandboxing, iPhone fuzzing, exploitation, ROP payloads,and baseband attacks Also examines kernel debugging and exploitation Companion website includes source code and tools to facilitatetheyour efforts iOS Hacker's Handbook arms you with the tools needed toidentify, understand, and foil iOS attacks.

The Fourier transform is one of the most fundamental tools for computing the frequency representation of signals. It plays a central role in signal processing, communications, audio and video compression, medical imaging, genomics, astronomy, as well as many other areas. Because of its widespread use, fast algorithms for computing the Fourier transform can benefit a large number of applications. The fastest algorithm for computing the Fourier transform is the Fast Fourier Transform (FFT), which runs in near-linear time making it an indispensable tool for many applications. However, today, the runtime of the FFT algorithm is no longer fast enough especially for big data problems where each dataset can be few terabytes. Hence, faster algorithms that run in sublinear time, i.e., do not even sample all the data points, have become necessary. This book addresses the above problem by developing the Sparse Fourier Transform algorithms and building practical systems that use these algorithms to solve key problems in six different applications: wireless networks; mobile systems; computer graphics; medical imaging; biochemistry; and digital circuits. This is a revised version of the thesis that won the 2016 ACM Doctoral Dissertation Award.

All the expert guidance you need to understand, build, andoperate GPS receivers The Second Edition of this acclaimed publication enablesreaders to understand and apply the complex operation principles ofglobal positioning system (GPS) receivers. Although GPS receiversare widely used in everyday life to aid in positioning andnavigation, this is the only text that is devoted to completecoverage of their operation principles. The author, one of theforemost authorities in the GPS field, presents the material from asoftware receiver viewpoint, an approach that helps readers betterunderstand operation and that reflects the forecasted integrationof GPS receivers into such everyday devices as cellular telephones.Concentrating on civilian C/A code, the book provides the tools andinformation needed to understand and exploit all aspects ofreceiver technology as well as relevant navigation schemes. Overview of GPS basics and the constellation of satellites thatcomprise the GPS system Detailed examination of GPS signal structure, acquisition, andtracking Step-by-step presentation of the mathematical formulas forcalculating a user's position Demonstration of the use of computer programs to run keyequations Instructions for developing hardware to collect digitized datafor a software GPS receiver Complete chapter demonstrating a GPS receiver following signal flow to determine a user's position The Second Edition of this highly acclaimed text has beengreatly expanded, including three new 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 understand,build, and operate GPS receivers. The book's logical flow frombasic concepts to applications makes it an excellent textbook forupper-level undergraduate and graduate students in electricalengineering, wireless communications, and computer science.

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-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. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

This book explore the use of new technologies in the area of satellite navigation receivers. In order to construct a 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 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 processing courses, or as a self-study reference for anyone working with satellite navigation receivers.

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