USRP User's and Developer's Guide

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This guide explains both basic usage of the USRP as well as how to expand it.

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Introduction

The Universal Software Radio Peripheral, or USRP (pronounced "usurp") is designed to allow general purpose computers to function as high bandwidth software radios. In essence, it serves as a digital baseband and IF section of a radio communication system. In addition, it has a well-defined electrical and mechanical interface to RF front-ends (daughterboards) which can translate between that IF or baseband and the RF bands of interest

The basic design philosophy behind the USRP has been to do all of the waveform-specific processing, like modulation and demodulation, on the bost CPU. All of the high-speed general purpose operations like digital up- and downconversion, decimation and interpolation are done on the FPGA.

It is anticipated that the majority of USRP users will never need to use anything other than the standard FPGA configuration. However, for those users that wish to, the FPGA design may be changed or replaced. All of the interfaces are well defined and documented.

Figure 1. USRP with Daughterboards

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The Car Hacker's Handbook Craig Smith,2016-03-01 Modern cars are more computerized than ever Infotainment and navigation systems Wi Fi automatic software updates and other innovations aim to make driving more convenient But vehicle technologies haven t kept pace with today s more hostile security environment leaving millions vulnerable to attack The Car Hacker s Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems Then once you have an understanding of a vehicle s communication network you ll learn how to intercept data and perform specific hacks to track vehicles unlock doors glitch engines flood communication and more With a focus on low cost open source hacking tools such as Metasploit Wireshark Kayak can utils and ChipWhisperer The Car Hacker s Handbook will show you how to Build an accurate threat model for your vehicle Reverse engineer the CAN bus to fake engine signals Exploit vulnerabilities in diagnostic and data logging systems Hack the ECU and other firmware and embedded systems Feed exploits through infotainment and vehicle to vehicle communication systems Override factory settings with performance tuning techniques Build physical and virtual test benches to try out exploits safely If you re curious about automotive security and have the urge to hack a two ton computer make The Car Hacker s Handbook your first stop

Inside Radio: An Attack and Defense Guide Qing Yang, Lin Huang, 2018-03-19 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 z/OS V1.11 DFSMS Release Guide Mary Lovelace, Andre Luiz Coelho Da Silva, Anthony Fletcher, Juergen Hoerner, Norbert Schlumberger, Hien Troung, Craig Vernon, IBM Redbooks, 2010-11-19 Each release of data facility storage management subsystem DFSMS builds upon the previous version to provide enhanced storage management data access device support program management and distributed data access for the z OS platform in a system managed storage environment This IBM Redbooks publication provides a summary of the functions and enhancements in z OS V1R11 DFSMS It provides you with the information that you need to understand and evaluate the content of this DFSMS release along with practical implementation hints and tips Also included are enhancements that were made available through an enabling PTF that has been integrated into z OS DFSMS V1R11 This book was written for storage professionals and system programmers who have experience with the components of DFSMS It provides sufficient information so that you can start prioritizing the implementation of new functions and evaluating their applicability in your DFSMS environment **Mobile and Ubiquitous**

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Antennas for RFID Systems Nemai Chandra Karmakar, 2011-02-25 The Handbook of Smart Antennas for RFID Systems is a single comprehensive reference on the smart antenna technologies applied to RFID This book will provide a timely reference book for researchers and students in the areas of both smart antennas and RFID technologies It is the first book to combine two of the most important wireless technologies together in one book The handbook will feature chapters by leading experts in both academia and industry offering an in depth description of terminologies and concepts related to smart antennas in various RFID systems applications Some topics are adaptive beamforming for RFID smart antennas multiuser interference suppression in RFID tag reading phased array antennas for RFID applications smart antennas in wireless systems and market analysis and case studies of RFID smart antennas This handbook will cover the latest achievements in the designs and applications for smart antennas for RFID as well as the basic concepts terms protocols systems architectures and case studies in smart antennas for RFID readers and tags **Information Technology: New Generations** Shahram Latifi,2016-03-28 This book collects articles presented at the 13th International Conference on Information Technology New Generations April 2016 in Las Vegas NV USA It includes over 100 chapters on critical areas of IT including Web Technology Communications Security and Data Mining International Master Tax Guide 2009/10, 2009 This book is a concise foreign tax reference tool for the practitioner who needs quick answers to basic corporate and individual tax questions Space Communication Amit Kumar Mishra, David Lloyd Johnson, 2014-10-13 This monograph presents a collection of major developments leading toward the implementation of white space technology an emerging wireless standard for using wireless spectrum in locations where it is unused by licensed users Some of the key research areas in the field are covered These include emerging standards technical insights from early pilots and simulations software defined radio platforms geo location spectrum databases and current white space spectrum usage in India and South Africa Handbook of Military and Defense Operations Research Natalie M. Scala, James P. Howard, II, 2024-08-21 Tracing its roots back to World War II operations research OR has become a vital tool in military and defense strategy The second edition of the Handbook of Military and Defense Operations Research highlights this evolution showcasing how OR integrates with cutting edge areas like artificial intelligence cybersecurity and big data analytics. This volume is more than a historical account it is a practical guide The volume features expert voices and offers insights into OR applications in modern security challenges Readers will discover a blend of theory and real world case studies making it an essential resource for both newcomers and seasoned defense analysis professionals Dive into this handbook to explore the rich dynamic field of military and defense operations research a discipline at the heart of global security and strategic decision making New to the second edition Reorganized into a three part structure Extensive revisions throughout Numerous new exercises examples and case studies Several new chapters Cognitive Radio Communications and Networks Alexander M. Wyglinski, Maziar Nekovee, Thomas Hou, 2009-11-13 Cognitive Radio Communications and 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 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 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 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 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 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 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 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 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 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 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 Topics in Cryptology - CT-RSA 2009 Marc Fischlin, 2009-04-29 This book constitutes the refereed proceedings of the Cryptographers Track at the RSA Conference 2009 CT RSA 2009 held in San Francisco CA USA in April 2009 The 31 revised full papers presented were carefully reviewed and selected from 93 submissions The papers are organized in topical sections on identity based encryption protocol analysis two party protocols more than signatures collisions for hash functions cryptanalysis alternative encryption privacy and anonymity efficiency improvements multi party protocols security of encryption schemes as well as countermeasures and faults Android Hacker's Handbook Joshua J. Drake, Zach Lanier, Collin Mulliner, Pau Oliva Fora, Stephen A. Ridley, Georg Wicherski, 2014-03-26 The first comprehensive guide to discovering and preventing attacks on the Android OS As the Android operating system continues to increase its share of the smartphone market smartphone hacking remains a growing threat Written by experts who rank among the world s foremost Android security researchers this book presents vulnerability discovery analysis and exploitation tools for the good guys Following a detailed explanation of how the Android OS works and its overall security architecture the authors examine how vulnerabilities can be discovered and exploits developed for various system components preparing you to

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