

Avr411 Secure Rolling Code Algorithm For Wireless Link

The Car Hacker's Handbook
 Information Systems Security and Privacy
 Silence on the Wire
 Guide to Bluetooth Security
 Internet of Things From Hype to Reality
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The Car Hacker's Handbook Springer

"This book will be riveting reading for security professionals and students, as well as technophiles interested in learning about how computer security fits into the big picture and high-level hackers seeking to broaden their understanding of their craft."--BOOK JACKET.

Information Systems Security and Privacy No Starch Press

This monograph covers different aspects of sensor network security including new emerging technologies. The authors present a mathematical approach to the topic and give numerous practical examples as well as case studies to illustrate the theory. The target audience primarily comprises experts and practitioners in the field of sensor network security, but the book may also be beneficial for researchers in academia as well as for graduate students.

Silence on the Wire Springer

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.

Guide to Bluetooth Security Anchor

This document provides info. to organizations on the security capabilities of Bluetooth and provide recommendations to organizations employing Bluetooth technologies on securing them effectively. It discusses Bluetooth technologies and security capabilities in technical detail. This document assumes that the readers have at least some operating system, wireless networking, and security knowledge. Because of the constantly changing nature of the wireless security industry and the threats and vulnerabilities to the technologies, readers are strongly encouraged to take advantage of other resources (including those listed in this document) for more current and detailed information. Illustrations.

Internet of Things From Hype to Reality DIANE Publishing

This book constitutes the revised selected papers of the Second International Conference on Information Systems Security and Privacy, ICISPP 2016, held in Rome, Italy, in February 2016. The 9 full papers presented together with two invited papers were carefully reviewed and selected from a total of 91 submissions. They are dealing with topics such as data and software security; privacy and confidentiality; mobile systems security; biometric authentication; privacy in social media.

Enabling the Internet of Things Springer

This book comprehensively describes an end-to-end Internet of Things (IoT) architecture that is comprised of devices, network, compute, storage, platform, applications along with management and security components. It is organized into five main parts, comprising of a total of 11 chapters. Part I presents a generic IoT reference model to establish a common vocabulary for IoT solutions. This includes a detailed description of the Internet protocol layers and the Things (sensors and actuators) as well as the key business drivers to realize the IoT vision. Part II focuses on the IoT requirements that impact networking protocols and provides a layer-by-layer walkthrough of the protocol stack with emphasis on industry progress and key gaps. Part III introduces the concept of Fog computing and describes the drivers for the technology, its constituent elements, and how it relates and differs from Cloud computing. Part IV discusses the IoT services platform, the cornerstone of the solution followed by the Security functions and requirements. Finally, Part V provides a treatment of the topic of connected ecosystems in IoT along with practical applications. It then surveys the latest IoT standards and discusses the pivotal role of open source in IoT. "Faculty will find well-crafted questions and answers at the end of each chapter, suitable for review and in classroom discussion topics. In addition, the material in the book can be used by engineers and technical leaders looking to gain a deep technical understanding of IoT, as well as by managers and business leaders looking to gain a competitive edge and understand innovation opportunities for the future." Dr. Jim Spohrer, IBM "This text provides a very compelling study of the IoT space and

achieves a very good balance between engineering/technology focus and business context. As such, it is highly-recommended for anyone interested in this rapidly-expanding field and will have broad appeal to a wide cross-section of readers, i.e., including engineering professionals, business analysts, university students, and professors." Professor Nasir Ghani, University of South Florida
Security in Wireless Sensor Networks No Starch Press

This book focus on critical infrastructure protection. The chapters present detailed analysis of the issues and challenges in cyberspace and provide novel solutions in various aspects. The first part of the book focus on digital society, addressing critical infrastructure and different forms of the digitalization, strategic focus on cyber security, legal aspects on cyber security, citizen in digital society, and cyber security training. The second part focus on the critical infrastructure protection in different areas of the critical infrastructure. The chapters cover the cybersecurity situation awareness, aviation and air traffic control, cyber security in smart societies and cities, cyber security in smart buildings, maritime cyber security, cyber security in energy systems, and cyber security in healthcare. The third part presents the impact of new technologies upon cyber capability building as well as new challenges brought about by new technologies. These new technologies are among others are quantum technology, firmware and wireless technologies, malware analysis, virtualization.

Sandworm Springer Nature

"With the nuance of a reporter and the pace of a thriller writer, Andy Greenberg gives us a glimpse of the cyberwars of the future while at the same time placing his story in the long arc of Russian and Ukrainian history." —Anne Applebaum, bestselling author of *Twilight of Democracy* The true story of the most devastating act of cyberwarfare in history and the desperate hunt to identify and track the elite Russian agents behind it: "[A] chilling account of a Kremlin-led cyberattack, a new front in global conflict" (Financial Times). In 2014, the world witnessed the start of a mysterious series of cyberattacks. Targeting American utility companies, NATO, and electric grids in Eastern Europe, the strikes grew ever more brazen. They culminated in the summer of 2017, when the malware known as NotPetya was unleashed, penetrating, disrupting, and paralyzing some of the world's largest businesses—from drug manufacturers to software developers to shipping companies. At the attack's epicenter in Ukraine, ATMs froze. The railway and postal systems shut down. Hospitals went dark. NotPetya spread around the world, inflicting an unprecedented ten billion dollars in damage—the largest, most destructive cyberattack the world had ever seen. The hackers behind these attacks are quickly gaining a reputation as the most dangerous team of cyberwarriors in history: a group known as Sandworm. Working in the service of Russia's military intelligence agency, they represent a persistent, highly skilled force, one whose talents are matched by their willingness to launch broad, unrestrained attacks on the most critical infrastructure of their adversaries. They target government and private sector, military and civilians alike. A chilling, globe-spanning detective story, Sandworm considers the danger this force poses to our national security and stability. As the Kremlin's role in foreign government manipulation comes into greater focus, Sandworm exposes the realities not just of Russia's global digital offensive, but of an era where warfare ceases to be waged on the battlefield. It reveals how the lines between digital and physical conflict, between wartime and peacetime, have begun to blur—with world-shaking implications.

Cyber Security Springer

This book offers the first comprehensive view on integrated circuit and system design for the Internet of Things (IoT), and in particular for the tiny nodes at its edge. The authors provide a fresh perspective on how the IoT will evolve based on recent and foreseeable trends in the semiconductor industry, highlighting the key challenges, as well as the opportunities for circuit and system innovation to address them. This book describes what the IoT really means from the design point of view, and how the constraints imposed by applications translate into integrated circuit requirements and design guidelines. Chapter contributions equally come from industry and academia. After providing a system perspective on IoT nodes, this book focuses on state-of-the-art design techniques for IoT applications, encompassing the fundamental sub-systems encountered in Systems on Chip for IoT: ultra-low power digital architectures and circuits low- and zero-leakage memories (including emerging technologies) circuits for hardware security and authentication System on Chip design methodologies on-chip power management and energy harvesting ultra-low power analog interfaces and analog-digital conversion short-range radios miniaturized battery technologies packaging and assembly of IoT integrated systems (on silicon and non-silicon substrates). As a common thread, all chapters conclude with a prospective view on the foreseeable evolution of the related technologies for IoT. The concepts developed throughout the book are exemplified by two IoT node system demonstrations from industry. The unique balance between breadth and depth of this book: enables expert readers quickly to develop an understanding of the specific challenges and state-of-the-art solutions for IoT, as well as their evolution in the foreseeable future provides non-experts with a comprehensive introduction to integrated circuit design for IoT, and serves as an excellent starting point for further learning, thanks to the broad coverage of topics and selected references makes it very well suited for practicing engineers and scientists working in the hardware and chip design for IoT, and as textbook for senior undergraduate, graduate and postgraduate students (familiar with analog and digital circuits).