

| Target BER | SNR (dB) | | |
|------------|----------------|-----------------|-----|
| | OQPSK - GA [1] | OQPSK - PSO [1] | MSK |
| 10-1 | 0 | 0 | 0 |
| 10-2 | 3.2 | 5.3 | 4 |
| 10-3 | 9.8 | 10 | 7 |
| 10-4 | 11 | 12 | 8.2 |
| 10-5 | ----- | ----- | 9.5 |
| 10-6 | ----- | ----- | 11 |

Table 2: Simulation Results Comparison with [1]

VI. CONCLUSION

In this work physical layer simulation of IEEE 802.15.4 / ZigBee protocol has been done. The proposed work is the implementation of ZigBee system according to the protocol description. In this work we have simulated ZigBee system first with conventional OQPSK modulation techniques, then the simulations are performed for MSK modulation, which is through OQPSK modulation. Simulation results for BER showing the average 79.43 % improvement in BER for Proposed MSK compared with OQPSK modulation scheme. For a target BER of 10-2 the SNR required is 4 dB for this work i.e. for MSK, as compared to 10 dB for conventional OQPSK. Hence, an improvement of 6 dB less SNR. For a target BER of 10-2 the SNR required is 4 dB for this work i.e. for MSK, as compared to 5.2 dB with [1]. Hence, an improvement of 1.2 dB less SNR. Based on the results of this work, one would choose the 868 MHz or 916 MHz MSK Physical Layer to optimize the hardware cost and implements the 2.4 GHz Physical Layer to maximize data rate. But, overall, we can conclude that due to minimum variations in MSK, the BER probability is less in MSK systems.

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**Michael O'Grady, Hamed Vahdat-
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Concepts, Applications, Experimentation and Analysis of Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy,2020-11-24 The new edition of this popular book has been transformed into a hands on textbook focusing on the principles of wireless sensor networks WSNs their applications their protocols and standards and their analysis and test tools a meticulous care has been accorded to the definitions and terminology To make WSNs felt and seen the adopted technologies as well as their manufacturers are presented in detail In introductory computer networking books chapters sequencing follows the bottom up or top down architecture of the seven layers protocol This book starts some steps later with chapters ordered based on a topic's significance to the elaboration of wireless sensor networks WSNs concepts and issues With such a depth this book is intended for a wide audience it is meant to be a helper and motivator for both the senior undergraduates postgraduates researchers and practitioners concepts and WSNs related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus For senior undergraduate students it familiarizes readers with conceptual foundations applications and practical project implementations For graduate students and researchers transport layer protocols and cross layering protocols are presented and testbeds and simulators provide a must follow emphasis on the analysis methods and tools for WSNs For practitioners besides applications and deployment the manufacturers and components of WSNs at several platforms and testbeds are fully explored

Advances in Computing and Data Sciences Mayank Singh,P.K. Gupta,Vipin Tyagi,Jan Flusser,Tuncer Ören,Rekha Kashyap,2019-07-18 This two volume set CCIS 1045 and CCIS 1046 constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences ICACDS 2019 held in Ghaziabad India in April 2019 The 112 full papers were carefully reviewed and selected from 621 submissions The papers are centered around topics like advanced computing data sciences distributed systems organizing principles development frameworks and environments software verification and validation computational complexity and cryptography machine learning theory database theory probabilistic representations

Embedded System Technology Xing Zhang,Zhonghai Wu,Xingmian Sha,2016-02-04 This book constitutes the refereed proceedings of the 13th National Conference on Embedded System Technology ESTC 2015 held in Beijing China in October 2015 The 18 revised full papers presented were carefully reviewed and selected from 63 papers The topics cover a broad range of fields focusing on research about embedded system technologies such as smart hardware system and network applications and algorithm

ICCWS 2018 13th International Conference on Cyber Warfare and Security Dr. Louise Leenen,2018-03-08 These proceedings represent the work of researchers participating in the 13th International Conference on Cyber Warfare and Security ICCWS 2018 which is being hosted this year by the National Defense University in Washington DC USA on 8 9 March 2018

Cross-Technology Communication for Internet of Things Xiuzhen Guo,Yuan He,Yunhao Liu,2023-07-31 Cross technology communication CTC is a technology that enables

direct communication between heterogeneous devices that use different wireless standards It works like a translator between two or more wireless technologies CTC not only creates a new avenue for inter operation and data exchange between wireless devices but also enhances the ability to manage wireless networks This book focuses on the enabling technology CTC and introduces readers to a variety of CTC techniques in heterogeneous wireless networks These techniques can be divided into two categories packet level CTCs based on energy modulation and channel intervention and physical level CTCs based on cross demapping digital emulation and split encoding The book offers a comprehensive comparison and analysis granting readers a deeper understanding of CTC techniques in terms of throughput reliability hardware modification and concurrency Moreover it highlights upper layer CTC application scenarios and cutting edge developments which include but are not limited to interference management channel quality estimation network routing etc The book is intended for all readers e g researchers students and even professionals who are interested in the areas of wireless networking wireless communication mobile computing and Internet of Things The findings and summaries presented here can help 1 guide researchers to rethink CTC techniques in connection with design methodology 2 further advance the infrastructure of future IoT by introducing CTC and 3 enable important IoT applications by delivering ubiquitous network connectivity

Cross-Technology Coexistence Design for Wireless Networks Junmei Yao,Kaishun Wu,2023-05-22 This book introduces readers to the fundamentals of the cross technology coexistence problem in heterogeneous wireless networks It also highlights a range of mechanisms designed to combat this problem and improve network performance including protocol design theoretical analysis and experimental evaluation In turn the book proposes three mechanisms that can be combined to combat the cross technology coexistence problem and improve network performance First the authors present a fast signal identification method It provides the basis for the subsequent protocol design and allows heterogeneous devices to adopt proper transmission strategies Second the authors present two cross technology interference management mechanisms in both the time domain and the frequency domain which can mitigate interference and increase transmission opportunities for heterogeneous devices thus improving network performance Third they present a cross technology communication mechanism based on symbol level energy modulation which allows heterogeneous devices to transmit information directly without a gateway improving transmission efficiency and paving the way for new applications in IoT scenarios Lastly they outline several potential research directions to further improve the efficiency of cross technology coexistence This book is intended for researchers computer scientists and engineers who are interested in the research areas of wireless networking wireless communication mobile computing and Internet of Things Advanced level students studying these topics will benefit from the book as well

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Gray Hat Hacking: The Ethical Hacker's Handbook, Fifth Edition Daniel Regalado,Shon Harris,Allen

Harper,Chris Eagle,Jonathan Ness,Branko Spasojevic,Ryan Linn,Stephen Sims,2018-04-05 Cutting edge techniques for finding and fixing critical security flaws Fortify your network and avert digital catastrophe with proven strategies from a team of security experts Completely updated and featuring 13 new chapters Gray Hat Hacking The Ethical Hacker's Handbook Fifth Edition explains the enemy's current weapons skills and tactics and offers field tested remedies case studies and ready to try testing labs Find out how hackers gain access overtake network devices script and inject malicious code and plunder Web applications and browsers Android based exploits reverse engineering techniques and cyber law are thoroughly covered in this state of the art resource And the new topic of exploiting the Internet of things is introduced in this edition Build and launch spoofing exploits with Ettercap Induce error conditions and crash software using fuzzers Use advanced reverse engineering to exploit Windows and Linux software Bypass Windows Access Control and memory protection schemes Exploit web applications with Padding Oracle Attacks Learn the use after free technique used in recent zero days Hijack web browsers with advanced XSS attacks Understand ransomware and how it takes control of your desktop Dissect Android malware with JEB and DAD decompilers Find one day vulnerabilities with binary diffing Exploit wireless systems with Software Defined Radios SDR Exploit Internet of things devices Dissect and exploit embedded devices Understand bug bounty programs Deploy next generation honeypots Dissect ATM malware and analyze common ATM attacks Learn the business side of ethical hacking

Gray Hat Hacking: The Ethical Hacker's Handbook, Sixth Edition Allen

Harper,Ryan Linn,Stephen Sims,Michael Baucom,Huascar Tejeda,Daniel Fernandez,Moses Frost,2022-03-11 Up to date strategies for thwarting the latest most insidious network attacks This fully updated industry standard security resource shows step by step how to fortify computer networks by learning and applying effective ethical hacking techniques Based on curricula developed by the authors at major security conferences and colleges the book features actionable planning and analysis methods as well as practical steps for identifying and combating both targeted and opportunistic attacks Gray Hat Hacking The Ethical Hacker's Handbook Sixth Edition clearly explains the enemy's devious weapons skills and tactics and offers field tested remedies case studies and testing labs You will get complete coverage of Internet of Things mobile and Cloud security along with penetration testing malware analysis and reverse engineering techniques State of the art malware ransomware and system exploits are thoroughly explained Fully revised content includes 7 new chapters covering the latest threats Includes proof of concept code stored on the GitHub repository Authors train attendees at major security conferences including RSA Black Hat Defcon and Besides

Evolving Ambient Intelligence Michael O'Grady,Hamed

Vahdat-Nejad,Klaus-Hendrik Wolf,Mauro Dragone,Juan Ye,Carsten Röcker,Gregory O'Hare,2013-12-14 This book constitutes the refereed proceedings of the workshops co located with the 4th International Joint Conference on Ambient Intelligence AmI 2013 held in Dublin Ireland in December 2013 The 33 revised full papers presented were carefully reviewed and selected from numerous submissions to the following workshops 5th International Workshop on Intelligent Environments

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