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Reliability Analysis of Wireless Automotive Applications with Transceiver Redundancy Bluetooth 5.0 Modem Design for IoT Devices Future Access Enablers for Ubiquitous and Intelligent Infrastructures Effective Help Desk Specialist Skills Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications Handbook of Microwave and Radar Engineering The Human-Powered Home Wireless Communications Systems Architecture Advanced Interconnects for ULSI Technology An Introduction to Circular Economy Making Things Talk Ham Radio For Dummies Complex, Intelligent, and Software Intensive Systems Encyclopedia of Environmental Health Bio-Medical CMOS ICs Security and Resilience in Intelligent Data-Centric Systems and Communication Networks Networks of the Future Corporate-Level Strategy De Sparsholt-affaire

This book provides an introduction to Bluetooth technology, with a specific focus on developing a hardware architecture for its modem. The major concepts and techniques involved in Bluetooth technology are discussed, with special emphasis on hardware mapping. The book starts simply to allow the reader to master quickly the basic concepts, before addressing the advanced features. This book differs from existing content in that it presents Bluetooth Transceiver architecture suitable for implementation in an FPGA for IoT Devices. It will examine several digital algorithms for modulation and demodulation of Bluetooth signals, locking on the carrier phase, and synchronizing the symbol. Many of these previously analog designs have been translated to the digital domain. Security and Resilience in Intelligent Data-Centric Systems and Communication Networks presents current, state-of-the-art work on novel research in theoretical and practical resilience and security aspects of intelligent data-centric critical systems and networks. The book analyzes concepts and technologies that are successfully used in the implementation of intelligent data-centric critical systems and communication networks, also touching on future developments. In addition, readers will find in-demand information for domain experts and developers who want to understand and realize the aspects (opportunities and challenges) of using emerging technologies for designing and developing more secure and resilient intelligent data-centric critical systems and communication networks. Topics covered include airports, seaports, rail transport systems, plants for the provision of water and energy, and business transactional systems. The book is well suited for researchers and PhD interested in the use of security and resilient computing technologies. Includes tools and techniques to prevent and avoid both accidental and malicious behaviors Explains the state-of-the-art technological solutions for main issues hindering the development of monitoring and reaction solutions Describes new methods and technologies, advanced prototypes, systems, tools and techniques of future direction This book constitutes the proceedings of the First International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2015, held in Ohrid, Republic of Macedonia, in September 2015. The 39 revised papers cover the broad areas of future wireless networks, ambient and assisted living, smart infrastructures and security and reflect the fast developing and vibrant penetration of IoT technologies in diverse areas of human live. All of today's help desk support skills, in one easy-to-understand book The perfect beginner's guide: No help desk or support experience necessary Covers both "soft" personal skills and "hard" technical skills Explains the changing role of help desk professionals in the modern support center Today, everyone depends on technology—and practically everyone needs help to use it well. Organizations deliver that assistance through help desks. This guide brings together all the knowledge you need to succeed in any help desk or technical support role, prepare for promotion, and succeed with the support-related parts of other IT jobs. Leading technology instructor Darril Gibson tours the modern help desk, explains what modern support professionals really do, and fully covers both of the skill sets you'll need: technical and personal. In clear and simple language, he discusses everything from troubleshooting specific problems to working with difficult users. You'll even learn how to manage a help desk, so it works better and delivers more value. Coverage includes: • How the modern help desk has evolved • Understanding your users' needs, goals, and attitudes • Walking through the typical help desk call • Communicating well: listening actively and asking better questions • Improving interactions and handling difficult situations • Developing positive attitudes, and "owning" the problem • Managing your time and stress • Supporting computers, networks, smartphones, and tablets • Finding the technical

product knowledge you need • Protecting the security of your users, information, and devices • Defining, diagnosing, and solving problems, step by step • Writing it up: from incident reports to documentation • Working in teams to meet the goals of the business • Using ITIL to improve the services you provide • Calculating help desk costs, benefits, value, and performance • Taking control of your support career

Powerful features make it easier to learn about help desk careers! • Clear introductions describe the big ideas and show how they fit with what you've already learned • Specific chapter objectives tell you exactly what you need to learn • Key Terms lists help you identify important terms and a complete Glossary helps you understand them • Author's Notes and On The Side features help you go deeper into the topic if you want to • Chapter Review tools and activities help you make sure you've learned the material Exclusive Mind Mapping activities! • Organize important ideas visually—in your mind, in your words • Learn more, remember more • Understand how different ideas fit together

Encyclopedia of Environmental Health, Second Edition presents the newest release in this fundamental reference that updates and broadens the umbrella of environmental health—especially social and environmental health—for its readers. There is ongoing revolution in governance, policies and intervention strategies aimed at evolving changes in health disparities, disease burden, trans-boundary transport and health hazards. This new edition reflects these realities, mapping new directions in the field that include how to minimize threats and develop new scientific paradigms that address emerging local, national and global environmental concerns. Represents a one-stop resource for scientifically reliable information on environmental health Fills a critical gap, with information on one of the most rapidly growing scientific fields of our time Provides comparative approaches to environmental health practice and research in different countries and regions of the world Covers issues behind specific questions and describes the best available scientific methods for environmental risk assessment

What if I could harness this energy? An unusual question for anyone putting in a long stint on a treadmill perhaps, and yet human power is a very old, practical and empowering alternative to fossil fuels. Replacing motors with muscles can be considered a political act -- an act of self-sufficiency that gains you independence. The Human-Powered Home is a one-of-a-kind compendium of human-powered devices gathered from a unique collection of experts. Enthusiasts point to the advantages of human power: Portable and available on-demand Close connection to the process or product offers more control Improved health and fitness The satisfaction of being able to make do with what is available This book discusses the science and history of human power and examines the common elements of human-powered devices. It offers plans for making specific devices, grouped by area of use, and features dozens of individuals who share technical details and photos of their inventions. For those who want to apply their own ingenuity, or for those who have never heard of human-powered machines, this book is a fine reference. For those who are beginning to understand the importance of a life of reduced dependency on fossil fuels, this book could be a catalyst for change. This book discusses wireless communication systems from a transceiver and digital signal processing perspective. It is intended to be an advanced and thorough overview for key wireless communication technologies. A wide variety of wireless communication technologies, communication paradigms and architectures are addressed, along with state-of-the-art wireless communication standards. The author takes a practical, systems-level approach, breaking up the technical components of a wireless communication system, such as compression, encryption, channel coding, and modulation. This book combines hardware principles with practical communication system design. It provides a comprehensive perspective on emerging 5G mobile networks, explaining its architecture and key enabling technologies, such as M-MIMO, Beamforming, mmWaves, machine learning, and network slicing. Finally, the author explores the evolution of wireless mobile networks over the next ten years towards 5G and beyond (6G), including use-cases, system requirements, challenges and opportunities.

Master's Thesis from the year 2014 in the subject Engineering - Automotive Engineering, grade: 1.7, University of Applied Sciences Rosenheim (University of Applied Science), course: Electrotech, language: English, abstract: In this thesis, the Failure Mode and Effect Analysis (FMEA) methodology is implemented for failure analysis in wireless automotive systems. Reliability analysis is done by using Reliability Block Diagrams (RBD). These analyses are performed to develop redundant systems. The main focus of this thesis is to make the system behavior fail-operation using wireless technology. The implementation of algorithms and protocol design has been done with an MSPEXP430 board and a CC2520 transceiver to detect single point failures. The implementations were then tested to detect different failure levels successfully. In this modern age, a car has different functionalities and facilities. The implementation is done by using different actuators, sensors and Electronics Control Units (ECUs).

Due to the high complexity of wiring and addition of weight to a car, controlling and maintaining these devices is difficult. As a solution for these complexities and the problem of weight growth, wireless technology has been used with the TDMA method. The approach for replacing wire by wireless technology may, however, not be secure and reliable. This book provides a platform of scientific interaction between the three challenging and closely linked areas of ICT-enabled-application research and development: software intensive systems, complex systems and intelligent systems. Software intensive systems strongly interact with other systems, sensors, actuators, devices, other software systems and users. More and more domains are using software intensive systems, e.g. automotive and telecommunication systems, embedded systems in general, industrial automation systems and business applications. Moreover, web services offer a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than their components. Complex systems are characterized by the changing environments in which they interact. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which are increasingly characterized by their use of ontologies and their logical foundations, offer impulses for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences are vital for the future development and innovation of software intensive and complex systems. This comprehensive handbook provides readers with a single-source reference to the theoretical fundamentals, physical mechanisms and principles of operation of all known microwave devices and various radars. The author discusses proven methods of computation and design development, process, schematic, schematic-technical and construction peculiarities of each breed of the microwave devices, as well as the most popular and original technical solutions for radars. Coverage also includes the history of creation of the most widely used radars, as well as guidelines for their potential upgrading. Offers readers a comprehensive, systematized view of all contemporary knowledge, acquired during the last 20 years, on radars and related disciplines; Provides a single-source reference on the physical mechanisms and principles of operation of the basic components of radio location devices, including theoretical aspects of designing the necessary, high-efficiency electronic devices and systems, as well as key, practical methods of computation and design; Presents complex topics using simple language, minimizing mathematics. Through the rise of big data and the internet of things, terrorist organizations have been freed from geographic and logistical confines and now have more power than ever before to strike the average citizen directly at home. This, coupled with the inherently asymmetrical nature of cyberwarfare, which grants great advantage to the attacker, has created an unprecedented national security risk that both governments and their citizens are woefully ill-prepared to face. Examining cyber warfare and terrorism through a critical and academic perspective can lead to a better understanding of its foundations and implications. *Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications* is an essential reference for the latest research on the utilization of online tools by terrorist organizations to communicate with and recruit potential extremists and examines effective countermeasures employed by law enforcement agencies to defend against such threats. Highlighting a range of topics such as cyber threats, digital intelligence, and counterterrorism, this multi-volume book is ideally designed for law enforcement, government officials, lawmakers, security analysts, IT specialists, software developers, intelligence and security practitioners, students, educators, and researchers. Provides instructions for building thirty-three projects that interact with the physical world, including a stuffed monkey video game controller and a battery powered GPS that reports its location over Bluetooth. This book is purposefully styled as an introductory textbook on circular economy (CE) for the benefit of educators and students of universities. It provides comprehensive knowledge exemplified by practices from policy, education, R&D, innovation, design, production, waste management, business and financing around the world. The book covers sectors such as agriculture/food, packaging materials, build environment, textile, energy, and mobility to inspire the growth of circular business transformation. It aims to stimulate action among different stakeholders to drive CE transformation. It elaborates critical driving forces of CE including digital technologies; restorative innovations; business opportunities & sustainable business model; financing instruments, regulation & assessment and experiential education programs. It connects a CE transformation for reaching the SDGs2030 and highlights youth leadership and entrepreneurship at all levels in driving the sustainability transformation. With the ubiquitous diffusion of the IoT, Cloud Computing, 5G and other evolved wireless technologies into our daily lives, the world will see the Internet of the future expand ever more quickly. Driving the progress of

communications and connectivity are mobile and wireless technologies, including traditional WLANs technologies and low, ultra-power, short and long-range technologies. These technologies facilitate the communication among the growing number of connected devices, leading to the generation of huge volumes of data. Processing and analysis of such "big data" brings about many opportunities, as well as many challenges, such as those relating to efficient power consumptions, security, privacy, management, and quality of service. This book is about the technologies, opportunities and challenges that can drive and shape the networks of the future. Written by established international researchers and experts, Networks of the Future answers fundamental and pressing research challenges in the field, including architectural shifts, concepts, mitigation solutions and techniques, and key technologies in the areas of networking. The book starts with a discussion on Cognitive Radio (CR) technologies as promising solutions for improving spectrum utilization, and also highlights the advances in CR spectrum sensing techniques and resource management methods. The second part of the book presents the latest developments and research in the areas of 5G technologies and Software Defined Networks (SDN). Solutions to the most pressing challenges facing the adoption of 5G technologies are also covered, and the new paradigm known as Fog Computing is examined in the context of 5G networks. The focus next shifts to efficient solutions for future heterogeneous networks. It consists of a collection of chapters that discuss self-healing solutions, dealing with Network Virtualization, QoS in heterogeneous networks, and energy efficient techniques for Passive Optical Networks and Wireless Sensor Networks. Finally, the areas of IoT and Big Data are discussed, including the latest developments and future perspectives of Big Data and the IoT paradigms. This book is based on a graduate course entitled, Ubiquitous Healthcare Circuits and Systems, that was given by one of the editors at his university. It includes an introduction and overview to the field of biomedical ICs and provides information on the current trends in research. The material focuses on the design of biomedical ICs rather than focusing on how to use prepared ICs. Finding new materials for copper/low-k interconnects is critical to the continuing development of computer chips. While copper/low-k interconnects have served well, allowing for the creation of Ultra Large Scale Integration (ULSI) devices which combine over a billion transistors onto a single chip, the increased resistance and RC-delay at the smaller scale has become a significant factor affecting chip performance. Advanced Interconnects for ULSI Technology is dedicated to the materials and methods which might be suitable replacements. It covers a broad range of topics, from physical principles to design, fabrication, characterization, and application of new materials for nano-interconnects, and discusses: Interconnect functions, characterisations, electrical properties and wiring requirements Low-k materials: fundamentals, advances and mechanical properties Conductive layers and barriers Integration and reliability including mechanical reliability, electromigration and electrical breakdown New approaches including 3D, optical, wireless interchip, and carbon-based interconnects Intended for postgraduate students and researchers, in academia and industry, this book provides a critical overview of the enabling technology at the heart of the future development of computer chips.

In 'De Sparsholt-affaire' volg je de meeslepende levens van de Engelse David Sparsholt en zijn zoon Johnny. Aan de hand van hun ervaringen zie je op ontroerende wijze hoe er over een periode van zestig jaar over homoseksualiteit werd gedacht. Als zeventienjarige komt David aan het begin van de Tweede Wereldoorlog in contact met twee mannelijke medestudenten. Hij is getrouwd met Connie, maar er ontstaat een hartstochtelijke vriendschap met gevoelens die hij voor Connie nooit heeft gekend. Johnny daarentegen groeit op in het moderne Londen waar hij van zijn homoseksualiteit geen geheim hoeft te maken. Hoe kan het dat de geheime relatie van zijn vader nog steeds een grote invloed heeft op Johnny's leven? Alan Hollinghurst (1954) is een Britse auteur die vooral bekend is geworden door zijn geruchtmakende boek 'De schoonheidslijn', waar hij in 2004 de Booker Prize mee won. Hollinghurst schrijft met een frisse blik over het nette Engeland, waar veel meer achter schuil gaat dan alleen de mooie gebouwen, goede manieren en liefde voor kunst en literatuur. Hij weet op poëtische wijze thema's als homoseksualiteit, verlangen en seks te verwoorden op een achtergrond van het romantische en intellectuele Britse leven. Naast auteur stond Hollinghurst jarenlang aan het hoofd van de The Times Literary Supplement. Advance praise for Corporate-Level Strategy. "At last a book that cuts through all the corporate jargon and academic generalizations to answer the question 'Does the corporate parent create or destroy value for the organization?' The authors suggest a simple yet compelling framework for making this determination. Must reading for students and practitioners alike." -Robert Cizik Chairman and Chief Executive Officer Cooper Industries "In an era when the role of corporate-level management is quite justifiably being questioned and challenged, it is refreshing to find a book that clearly shows how parent companies can

add rather than destroy value in their businesses. As we would expect of these world class authorities, Goold, Campbell, and Alexander have leveraged their fascinating research findings into an eminently readable and highly practical book." -Chris Bartlett Professor Harvard Business School "A vital and deeply researched contribution to thinking about corporate strategy." -Gary Hamel London Business School "I am very impressed by the extensive work on which this book is based, and by the concept of parenting advantage that it puts forward." -Yasutaka Obayashi Senior General Manager, Corporate Strategy Canon "Great companies grow, they don't just cut. With breakups and restructuring done, corporate parenting is coming back. Goold, Campbell, and Alexander have produced a comprehensive and intelligent book which should become a standard guide on the subject." -Tom Hout Vice President The Boston Consulting Group "A perceptive and valuable insight into an often underestimated area of strategy. This book clearly demonstrates the importance of parenting to the longer term development and prosperity of multibusiness companies." -Alan R. Jackson Chief Executive, BTR "I am glad someone has so well and so fully shed light on this important body of thinking." -Sigurd Reinton Director, McKinsey & Company, 1981-1988 Respond to the call of ham radio Despite its old-school reputation, amateur radio is on the rise, and the airwaves are busier than ever. That's no surprise: being a ham is a lot of fun, providing an independent way to keep in touch with friends, family, and new acquaintances around the world—and even beyond with its ability to connect with the International Space Station! Hams are also good in a crisis, keeping communications alive and crackling during extreme weather events and loss of communications until regular systems like cell phones and the internet are restored. Additionally, it's enjoyable for good, old-fashioned tech geek reasons—fiddling with circuits and bouncing signals off the ionosphere just happens to give a lot of us a buzz! If one or more of these benefits is of interest to you, then good news: the new edition of Ham Radio For Dummies covers them all! In his signature friendly style, longtime ham Ward Silver (Call Sign NØAX)—contributing editor with the American Radio Relay League—patches you in on everything from getting the right equipment and building your station (it doesn't have to be expensive) to the intricacies of Morse code and Ohm's law. In addition, he coaches you on how to prepare for the FCC-mandated licensing exam and tunes you up for ultimate glory in the ham radio hall of fame as a Radiosport competitor! With this book, you'll learn to: Set up and organize your station Communicate with people around the world Prep for and pass the FCC exam Tune into the latest tech, such as digital mode operating Whether you're looking to join a public service club or want the latest tips on the cutting edge of ham technology, this is the perfect reference for newbies and experts alike—and will keep you happily hamming it up for years!

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