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1. This book is the ultimate guide for the fashion entrances 2. The guide is divided into 7 main sections 3. Complete theory has been synced with the syllabus 4. For section practice 2 Sections Tests are given in each 5. MCQs, Crack Sets and Previous Solved Papers for complete practice 6. Detailed Solutions of Solved paper 2021 & Crack Sets also have been provided. The best thing about fashion is that it ‘changes’. Miuccia Prada once said, “What you wear is how you represent yourself to the world. Fashion is instant language.” the top institutions like; NID, NIFT and IIFT conduct their own entrance exam to provide good and flourishing careers in the field of fashion. Get yourself prepared with “The Ultimate Guide for NIFT, NID, IIFT Entrance Examination 2022” that leads on the path of fashion and covering almost every institution entrance test syllabus. It carries complete study material that covers for both graduate and postgraduate entrance. Entire syllabus of the book has been categorized in 7 majors and sub categorized into chapters for complete learning. For good grasping of concepts, each chapter has been well explained & elaborated in a student friendly manner. At the end of every section 2 Section Tests are given for quick revision of subjects and ample number of MCQs are provided for complete practice. Last but not the least, well detailed Solved Paper of 2021& 3 Crack Sets are given to analyze the paper pattern. TOC NIFT Solved

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Paper (2021 – 2015), Numerical Ability, English Language and Comprehension, Reasoning and Logical Deduction, General Awareness, Case Studies and Caselets, Creative Ability, Group Discussion & Personal Interview, Crack Sets (1-3), Answer to Sections Test and Crack Sets (1-3)

Through the use of ICT tools, such as the internet, portals, and telecommunication devices, the quality of healthcare has improved in local and global health; aiding in the development of a sustainable economy. Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care brings together a valuable research collection on ICT elements needed to improve communication and collaboration between global health institutes, public and private organizations, and foundations. Highlighting the adoption and success factors in the development of technologies for healthcare, this book is essential for IT professionals, technology solution providers, researchers, and students interested in technology and its relationship with healthcare and social services.

1.The Ultimate Guide for the preparation of NCHMCT – JEE for B.Sc. course
2.The book is divided into 5 Sections
3.Good number of question have been provided for practice
4.3 Solved papers, 8 Section tests and 3 Crack sets are given for thorough practice
5.Answers to Section Tests and Crack Sets are given for the complete assistance
6.Group discussion and Personal Interview section is mention to make you well prepared
Hotel Management is one of the most lucrative streams of

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higher education in India. To get into the best Hotel Management Institutes, students need to appear for NCHMCT- Joint Entrance Exams for B.Sc. (Hospitality and Hotel Administration) which is conducted by National Testing Agency (NTA) every year “The Ultimate Guide for Hotel Management Entrance Examination 2021” is a comprehensive textbook designed to give complete assistance for the preparation. The book helps in building the strong theoretical concepts under various sections along with good number of questions provided with well explained answers for practice and self evaluation to get the complete picture of the exam pattern and level both. This book is highly useful and a complete guide for the aspirants those who are willing to make future in Hotel Management. TABLE OF CONTENTS Solved Papers [2020-2018], English Language and Comprehensive, Reasoning and Logical Deduction, Numerical Ability, General Awareness, Service Aptitude, Group Discussion and Personal Interview, Crack Sets (1-3), Answers to Section Tests and Crack Sets (1-3).

Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end-users into an understandable way. Data Mining: Concepts, Methodologies, Tools, and Applications is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world.

LTE, WiMAX and WLAN Network Design, Optimization

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and Performance Analysis John Wiley & Sons

Covering everything from signal processing algorithms to integrated circuit design, this complete guide to digital front-end is invaluable for professional engineers and researchers in the fields of signal processing, wireless communication and circuit design. Showing how theory is translated into practical technology, it covers all the relevant standards and gives readers the ideal design methodology to manage a rapidly increasing range of applications. Step-by-step information for designing practical systems is provided, with a systematic presentation of theory, principles, algorithms, standards and implementation. Design trade-offs are also included, as are practical implementation examples from real-world systems. A broad range of topics is covered, including digital pre-distortion (DPD), digital up-conversion (DUC), digital down-conversion (DDC) and DC-offset calibration. Other important areas discussed are peak-to-average power ratio (PAPR) reduction, crest factor reduction (CFR), pulse-shaping, image rejection, digital mixing, delay/gain/imbalance compensation, error correction, noise-shaping, numerical controlled oscillator (NCO) and various diversity methods.

"This book is intended to serve two purposes: to provide a coherent explanation of the theories and procedures that underpin forensic radio surveying and of the network technologies being surveyed in a form that can be read cover to cover as a text book; but also to act as a reference resource that can be dipped into as needed"--

A technological overview of LTE and WiMAX LTE, WiMAX and WLAN Network Design, Optimization and

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Performance Analysis provides a practical guide to LTE and WiMAX technologies introducing various tools and concepts used within. In addition, topics such as traffic modelling of IP-centric networks, RF propagation, fading, mobility, and indoor coverage are explored; new techniques which increase throughput such as MIMO and AAS technology are highlighted; and simulation, network design and performance analysis are also examined. Finally, in the latter part of the book Korowajczuk gives a step-by-step guide to network design, providing readers with the capability to build reliable and robust data networks. By focusing on LTE and WiMAX this book extends current network planning approaches to next generation wireless systems based on OFDMA, providing an essential resource for engineers and operators of fixed and wireless broadband data access networks. With information presented in a sequential format, LTE, WiMAX and WLAN Network Design, Optimization and Performance Analysis aids a progressive development of knowledge, complementing latter graduate and postgraduate courses while also providing a valuable resource to network designers, equipment vendors, reference material, operators, consultants, and regulators. Key Features: One of the first books to comprehensively explain and evaluate LTE Provides an unique explanation of the basic concepts involved in wireless broadband technologies and their applications in LTE, WiMAX, and WLAN before progressing to the network design Demonstrates the application of network planning for LTE and WiMAX with theoretical and practical approaches Includes all aspects

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of system design and optimization, such as dynamic traffic simulations, multi-layered traffic analysis, statistical interference analysis, and performance estimations

Handbook of Signal Processing Systems is organized in three parts. The first part motivates representative applications that drive and apply state-of-the art methods for design and implementation of signal processing systems; the second part discusses architectures for implementing these applications; the third part focuses on compilers and simulation tools, describes models of computation and their associated design tools and methodologies. This handbook is an essential tool for professionals in many fields and researchers of all levels. This book discusses the latest advances in the development of artificial intelligence systems and their applications in various fields, from medicine and technology to education. It comprises papers presented at the Third International Conference of Artificial Intelligence, Medical Engineering, Education (AIMEE2019), held at the Mechanical Engineering Institute of the Russian Academy of Sciences, Moscow, Russia, on 1–3 October 2019. Covering topics such as mathematics and biomathematics; medical approaches; and technological and educational approaches, it is intended for the growing number of specialists and students in this field, as well as other readers interested in discovering where artificial intelligence systems can be applied in the future.

The 4th FTRA International Conference on Computer Science and its Applications (CSA-12) will be held in Jeju, Korea on November 22~25, 2012. CSA-12 will be

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the most comprehensive conference focused on the various aspects of advances in computer science and its applications. CSA-12 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of CSA. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in CSA. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. CSA-12 is the next event in a series of highly successful International Conference on Computer Science and its Applications, previously held as CSA-11 (3rd Edition: Jeju, December, 2011), CSA-09 (2nd Edition: Jeju, December, 2009), and CSA-08 (1st Edition: Australia, October, 2008).

This book constitutes the thoroughly refereed post-conference proceedings of the Second International ICST Conference on Mobile Networks and Management, MONAMI 2010, held in Santander, Spain in September 2010. The 29 revised full papers presented were carefully reviewed and selected for inclusion in the proceedings. The papers are organized in topical sections on routing and virtualization, autonomic networking, mobility management, multiaccess selection, wireless network management, wireless networks, and future research directions.

This book is a detailed compendium of these major advancements focusing exclusively on the emerging broadband wireless communication technologies which support broadband wireless data rate transmissions.

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Editor: Jan Nikodem, La Trobe University, Melbourne, Australia.

This book constitutes the thoroughly refereed proceedings of the 5th International Conference on Mobile Wireless Middleware, Operating Systems, and Applications, Mobilware 2012, held in Berlin, Germany, in November 2012. The 18 revised full papers presented were carefully reviewed and selected from numerous contributions. The papers are organized in topical sections on Internet of things and mobile sensing, mobile middleware platforms, mobile networks, systems support for mobile applications, and context awareness.

Giving a sound technical introduction to 3GPP LTE and SAE, this book explains the decisions taken during standardization while also examining the likely competition for LTE such as HSPA+ and WiMAX. As well as looking at next generation network technologies, *Beyond 3G - Bringing Networks, Terminals and the Web Together* describes the latest mobile device developments, voice and multimedia services and the mobile web 2.0. It considers not only how the systems, devices and software work but also the reasons behind why they are designed in this particular way. How these elements strongly influence each other is discussed as well as how network capabilities, available bandwidth, mobile device capabilities and new application concepts will shape the way we communicate in the future. This book gives an end to end introduction to wireless, from mobile software architecture to core networks, making it a valuable resource for anyone working in the industry. Examines current and next-generation network

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technologies such as UMTS, HSPA+, WiMAX, LTE and Wifi Analyses and explains performance and capacity in practice as well as future capacity requirements and how they can be fulfilled Introduces the reader to the current cellular telephony architecture and to voice over IP architectures such as SIP, IMS and TISPAN Looks at mobile device hardware and mobile operating system evolution Encompasses all major global wireless standards for application development and the latest state of the mobile web 2.0

Covers the state of the art of the technology and standardsfor reconfigurable radio systems, from self organizing networks andcognitive radio, through to reconfigurable architectures fornetworks and terminals This timely book provides a standards-based view of thedevelopment, evolution, techniques and potential future scenariosfor the deployment of reconfigurable radio systems. After an introduction to radiomobile and radio systems deployedin the access network, the book describes cognitive radio conceptsand capabilities, which are the basis for reconfigurable radiosystems. The self-organizing network features introduced in3GPP standards are discussed and before IEEE 802.22, thefirst standard based on cognitive radio, is described. Then theETSI reconfigurable radio systems functional architecture and theIEEE 1900.4 standard for reconfigurable radio are examined.Finally, the author presents new scenarios and future visions thatreconfigurable radio systems may bring. Key features:- Examines the current standards based on cognitive andreconfigurable radio, and analyses future

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scenarios Includes a general overview of radiomobile (i.e. GSM, UMTS,HSPA, LTE) and wireless (i.e. WLAN, WPAN, WiMAX) networkarchitectures Features an accompanying website features links and whitepapers From cloud computing to data analytics, society stores vast supplies of information through wireless networks and mobile computing. As organizations are becoming increasingly more wireless, ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative. Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society. Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data. This book is an important resource for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, and IT specialists seeking modern information on emerging methods in data mining, information technology, and wireless networks. Wireless communications has made a huge leap during the past two decades. The multiple-input-multiple-output (MIMO) technology was proposed in the 1990's as a viable solution that can overcome the data rate limit experienced by single-input-single-

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output (SISO) systems. This resource is focused on printed MIMO antenna system design. Printed antennas are widely used in mobile and handheld terminals due to their conformity with the device, low cost, good integration within the device elements and mechanical parts, as well as ease of fabrication. A perfect design companion for practicing engineers, this book provides full design examples from literature, along with detailed illustrations for the various antenna geometries. This resource overviews the various applications that currently depend on printed MIMO antennas, and provides design guidelines and remarks throughout the book for guidance.

This book constitutes the refereed proceedings of the First International Conference on Advances in Parallel, Distributed Computing Technologies and Applications, PDCTA 2011, held in Tirunelveli, India, in September 2011. The 64 revised full papers were carefully reviewed and selected from over 400 submissions. Providing an excellent international forum for sharing knowledge and results in theory, methodology and applications of parallel, distributed computing the papers address all current issues in this field with special focus on algorithms and applications, computer networks, cyber trust and security, wireless networks, as well as mobile computing and bioinformatics.

- This book is an ultimate guide for BBA/ BBS/ BBM

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entrances • The entire syllabus of has been divided into 6 main section and further into chapter • 2 Section Tests is carried after every section • More than 3000 MCQs have been provided for quick revision of concept • 5 Previous Years' Solved Question Papers [2019- 2015] for complete practice • 3 Cracked Sets are given for self evaluation • Answer to Section Tests and Crack Sets provided at the end of the book BBA/BBM/BMS are 3 years full time Under-Graduated Management programmes that instill the basics of running business operation in a student. Various management Universities/ institutions like AIMA-UGAT, Delhi University, Symbiosis Pune, GGSIPU, Jamia Millia, etc., conduct entrances exams for the above cited bachelor courses “The Ultimate Guide for the BBA/BMS/BBM Entrance Examination 2021” provides a structured and comprehensive approach towards learning the concepts. The book covers the entire syllabus under 6 sections and also provides ample number of questions in the form of Section tests, MCQs and Solved papers with well-detailed answers to analyze the paper pattern. In order to get self-evaluated, 3 Crack Sets are provided for additional practice. TABLE OF CONTENT Solved Paper 2020 & 2019 , Numerical Ability, Reasoning and Logical Deduction, Corporate GK (With Question Bank), General Awareness, English Language & Comprehension, Group Discussion &

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Personal Interview, Crack Sets (1-3), Answer to Section Tests and Crack Sets.

This book is supposed to serve as a comprehensive and instructive guide through the new world of digital communication. On the physical layer optical and electrical cabling technology are described as well as wireless communication technologies. On the data link layer local area networks (LANs) are introduced together with the most popular LAN technologies such as Ethernet, Token Ring, FDDI, and ATM as well as wireless LAN technologies including IEEE 802.x, Bluetooth, or ZigBee. A wide range of WAN technologies are covered including contemporary high speed technologies like PDH and SDH up to high speed wireless WANs (WiMAX) and 4th generation wireless telephone networks LTE. Routing technologies conclude the treatment of the data link layer. Next, there is the Internet layer with the Internet protocol IP that establishes a virtual uniform network out of the net of heterogeneous networks. In detail, both versions, IPv4 as well as the successor IPv6 are covered in detail as well as ICMP, NDP, and Mobile IP. In the subsequent transport layer protocol functions are provided to offer a connection-oriented and reliable transport service on the basis of the simple and unreliable IP. The basic protocols TCP and UDP are introduced as well as NAT, the network address translation. Beside transport layer security protocols like SSL and TLS

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are presented. On the upmost application layer popular Internet application protocols are described like DNS, SMTP, PGP, (S)FTP, NFS, SSH, DHCP, SNMP, RTP, RTCP, RTSP, and World Wide Web. The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

em style="mso-bidi-font-style: normal;"Wireless Communications Systems Design provides the basic knowledge and methodology for wireless communications design. The book mainly focuses on a broadband wireless communication system based on OFDM/OFDMA system because it is widely used in the modern wireless communication system. It is divided into three parts: wireless communication theory (part I), wireless communication block design (part II), and wireless communication block integration (part III). Written by an expert with various experience in system design (standards,

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research and development)

Mass Communication is the process of exchanging information through the large segments of the people, in other words it is the mode of imparting and exchanging the information to the wide range of people. It is one of the most creative carriers which attract lot of young minds these days. Mass Communication and Journalism mostly covers 3 areas i.e. Advertisements, Media and Public Relations. The revised edition of 'The Ultimate Guide for Journalism & Mass Communication" has been comprehensively designed that covers the syllabi of almost all the Mass Media Institutions/ Universities. The book is divided into 4 sections and each section is further divided into chapters with complete theory that has been synchronized with the syllabus. This book provides Section wise Practice i.e. each section is carried with 2 Section Tests in order to clear all the queries regarding the subjects simultaneously. In order to make candidates acquainted with latest pattern of the examination ample amount of MCQs have been provided in the book moreover, for complete practice Previous Years' Solved Papers [2019-2015] and 3 Practice Sets have been provided in this book. Each question provided in the book is well explained in a lucid language which makes candidates to memorize the concepts easily and quickly. This book is highly useful for Bachelor of Journalism in GGSIPU and

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other (IIMC, MICA) prestigious Universities Entrance Examination. Thorough preparation done from this book will ensure the selection of the candidates in a good colleges

TABLE OF CONTENT

Solved Paper 2019 – 2015, Mass Communication/Media Aptitude, General Awareness, English Language/Comprehension, Reasoning & Logical Deduction, Crack Sets (1-3), Answers to Section Tests & Crack Sets.

The First International Conference on Mobile Lightweight Systems (MOBILIGHT) was held in Athens during May 18–20, 2009. The decision to organize a scientific event on wireless communications, where competition is really enormous, was motivated by discussions with some colleagues about the current unprecedented request for lightweight, wireless communication devices with high usability and performance able to support added-value services in a highly mobile environment. Such devices follow the user everywhere he/she goes (at work, at home, while travelling, in a classroom, etc.), but also result in exciting - search, development and business opportunities. Such a scenario clearly demands significant upgrades to the existing communi- tion paradigm in terms of infrastructure, devices and services to support the anytime, anywhere, any device philosophy, introducing novel and fast-evolving requirements and expectations on research and development in the field of information and com- nication technologies. The core issue is to support the desire of wireless users to have 24/7 network availability and transparent access to "their own" services. Following on from the successful first edition (March 2012), this book gives a clear explanation of what LTE does and how it works. The content is expressed at a systems level,

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offering readers the opportunity to grasp the key factors that make LTE the hot topic amongst vendors and operators across the globe. The book assumes no more than a basic knowledge of mobile telecommunication systems, and the reader is not expected to have any previous knowledge of the complex mathematical operations that underpin LTE. This second edition introduces new material for the current state of the industry, such as the new features of LTE in Releases 11 and 12, notably coordinated multipoint transmission and proximity services; the main short- and long-term solutions for LTE voice calls, namely circuit switched fallback and the IP multimedia subsystem; and the evolution and current state of the LTE market. It also extends some of the material from the first edition, such as inter-operation with other technologies such as GSM, UMTS, wireless local area networks and cdma2000; additional features of LTE Advanced, notably heterogeneous networks and traffic offloading; data transport in the evolved packet core; coverage and capacity estimation for LTE; and a more rigorous treatment of modulation, demodulation and OFDMA. The author breaks down the system into logical blocks, by initially introducing the architecture of LTE, explaining the techniques used for radio transmission and reception and the overall operation of the system, and concluding with more specialized topics such as LTE voice calls and the later releases of the specifications. This methodical approach enables readers to move on to tackle the specifications and the more advanced texts with confidence.

An overwhelming development has taken place in voice and data communication over the last twenty years as the industry evolved from fixed to mobile and wireless communication. This development is supported with new technologies and evolving networks from the first generation (1G), 2G, 3G and the fourth generation (4G) mobile wireless communications.

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During this evolution and revolution in telecommunications, the industry also changed from circuit switched networks to packet switched networks in 3G and 3G. Hence the planning of telecommunication networks has equally changed significantly. By providing the necessary background and technical content to understand and stay abreast of how to plan the new network types, *Planning and Optimisation of 3G and 4G Wireless Networks* explores the idiosyncrasies of how to plan the various types of wireless networks. Packed with details of the technologies that support each network type, this cutting-edge reference leads the reader step by step on how to plan and optimize various types of wireless networks. It examines current and emerging network planning and enhancement techniques through examples in HSPA, B3G, WiMAX, mesh networks, personal area networks and wireless sensor networks. It clearly provides the different architectures of these networks along with their support design methods. It includes coverage of the latest wireless network types, planning and optimization methods in the form of: 3G HSPA and Beyond 3G WiMAX (fixed and mobile) and LTE OFDM Wireless mesh networks Personal area networks Propagation models and link budgets Cognitive radio and spectrum sensing Planning of wireless sensor networks Synchronisation of CDMA systems Interference suppression Cross-layer optimisation Topology control Resource management The illustrative planning and optimization methods provide the reader with a clear foot path into future networks. This book provides educators, industry practitioners, regulators, researchers and subscribers with the ideal foundation for developing the understanding required to design, deploy, train, and use wireless networks of various types.

In emergency and disaster scenarios, it is vital to have a stable and effective infrastructure for relaying communication

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to the public. With the advent of new technologies, more options are available for enhancing communication systems. Multimedia Services and Applications in Mission Critical Communication Systems is a comprehensive source of academic research on the challenges and solutions in creating stable mission critical systems and examines methods to improve system architecture and resources. Highlighting innovative perspectives on topics such as quality of service, performance metrics, and intrusion detection, this book is ideally designed for practitioners, professionals, researchers, graduate students, and academics interested in public safety communication systems.

All model parameters are fundamentally coupled together, so that directly measured individual parameters, although widely used and accepted, may initially only serve as good estimates. This comprehensive resource presents all aspects concerning the modeling of semiconductor field-effect device parameters based on gallium-arsenide (GaAs) and gallium nitride (GaN) technology. Metal-semiconductor field-effect transistors (MESFETs), high electron mobility transistors (HEMTs) and heterojunction bipolar transistors (HBTs), their structures and functions, and existing transistor models are also classified. The Shockley model is presented in order to give insight into semiconductor field-effect transistor (FET) device physics and explain the relationship between geometric and material parameters and device performance. Extraction of trapping and thermal time constants is discussed. A special section is devoted to standard nonlinear FET models applied to large-signal measurements, including static-/pulsed-DC and single-/two-tone stimulation. High power measurement setups for signal waveform measurement, wideband source-/load-pull measurement (including envelope source-/load pull) are also included, along with high-power intermodulation distortion (IMD)

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measurement setup (including envelope load-pull). Written by a world-renowned expert in the field, this book is the first to cover of all aspects of semiconductor FET device modeling in a single volume.

Tackling problems from the least complicated to the most, *Resource Allocation in Uplink OFDMA Wireless Systems* provides readers with a comprehensive look at resource allocation and scheduling techniques (for both single and multi-cell deployments) in uplink OFDMA wireless networks—relying on convex optimization and game theory to thoroughly analyze performance. Inside, readers will find topics and discussions on: Formulating and solving the uplink ergodic sum-rate maximization problem Proposing suboptimal algorithms that achieve a close performance to the optimal case at a considerably reduced complexity and lead to fairness when the appropriate utility is used Investigating the performance and extensions of the proposed suboptimal algorithms in a distributed base station scenario Studying distributed resource allocation where users take part in the scheduling process, and considering scenarios with and without user collaboration Formulating the sum-rate maximization problem in a multi-cell scenario, and proposing efficient centralized and distributed algorithms for intercell interference mitigation Discussing the applicability of the proposed techniques to state-of-the-art wireless technologies, LTE and WiMAX, and proposing relevant extensions Along with schematics and figures featuring simulation results, *Resource Allocation in Uplink OFDMA Wireless Systems* is a valuable book for?wireless communications and cellular systems professionals and students.

Indoor Wireless Communications: From Theory to Implementation provides an in-depth reference for design engineers, system planners and post graduate students interested in the vastly popular field of indoor wireless

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communications. It contains wireless applications and services for in-building scenarios and knowledge of key elements in the design and implementation of these systems. Technologies such as Wireless Local Area Networks, Bluetooth, ZigBee, Indoor Optical Communications, WiMAX, UMTS and GSM for indoor environments are fully explained and illustrated with examples. Antennas and propagation issues for in-building scenarios are also discussed, emphasizing models and antenna types specifically developed for indoor communications. An exhaustive survey on indoor wireless communication equipment is also presented, covering all available technologies including antennas, distribution systems, transceivers and base stations.

Presenting the new IEEE 802.16m standard, this is the first book to take a systematic, top-down approach to describing Mobile WiMAX and its next generation, giving detailed algorithmic descriptions together with explanations of the principles behind the operation of individual air-interface protocols and network components. Features: A systematic and detailed, top-down approach to the design of 4G cellular systems based on IEEE 802.16m and 3GPP LTE/LTE-Advanced technologies A systematic approach to understanding IEEE 802.16m radio access network and mobile WiMAX network architecture and protocols The first comprehensive technical reference on the design, development and performance evaluation of IMT-Advanced systems, including the theoretical background and design principles as well as implementation considerations About the author: The author, chief architect and technical lead of the IEEE 802.16m project at Intel Corporation, initiated and masterminded the development of the IEEE 802.16m standard and has been one of the leading technical drivers in its standardization process in IEEE. The author was also a

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leading technical contributor to the definition and development of requirements and evaluation methodology for the IMT-Advanced systems in ITU-R. Reflecting the author's 20+ years expertise and experience, the book provides an in-depth, systematic and structured technical reference for professional engineers, researchers, and graduate students working in cellular communication systems, radio air-interface technologies, cellular communications protocols, advanced radio access technologies for 4G systems, and broadband cellular standards. A systematic and detailed, top-down approach to the design of 4G cellular systems based on IEEE 802.16m and 3GPP LTE/LTE-Advanced technologies A systematic approach to understanding IEEE 802.16m radio access network and mobile WiMAX network architecture and protocols The first comprehensive technical reference on the design, development and performance evaluation of IMT-Advanced systems, including the theoretical background and design principles as well as implementation considerations In the last decades the restless evolution of information and communication technologies (ICT) brought to a deep transformation of our habits. The growth of the Internet and the advances in hardware and software implementations modified our way to communicate and to share information. In this book, an overview of the major issues faced today by researchers in the field of radio communications is given through 35 high quality chapters written by specialists working in universities and research centers all over the world. Various aspects will be deeply discussed: channel modeling, beamforming, multiple antennas, cooperative networks, opportunistic scheduling, advanced admission control, handover management, systems performance assessment, routing issues in mobility conditions, localization, web security. Advanced techniques for the radio resource management will be discussed both in single and multiple

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radio technologies; either in infrastructure, mesh or ad hoc networks.

Following the success of the First MOBILIGHT 2009 in Athens, Greece, the Second International Conference on Mobile Lightweight Systems (MOBILIGHT) was held in Barcelona, Spain on May 10-12, 2010. It was not an easy decision to carry on organizing a scientific event on wireless communications, where competition is really enormous. This decision was motivated by discussion with many colleagues about the current unprecedented demand for lightweight, wireless communication devices with high usability and performance able to support added-value services in a highly mobile environment. Such devices follow the users everywhere they go (at work, at home, while travelling, in a classroom, etc.) and result in exciting research, development and business opportunities. Such scenarios clearly demand significant upgrades to the existing communication paradigm in terms of infrastructure, devices and services to support the "anytime, anywhere, any device" philosophy, providing novel and fast-evolving requirements and expectations on - search and development in the field of information and communication technologies. The core issue is to support wireless users' desire for 24/7 network availability and transparent access to "their own" services. In this context, we continue to envision an international forum where practitioners and researchers coming from the many areas involved in lightweight wireless systems' design and deployment would be able to interact and exchange experiences.

This book constitutes the refereed proceedings of the First International Conference on Advances in Computing and Data Sciences, ICACDS 2016, held in Ghaziabad, India, in November 2016. The 64 full papers were carefully reviewed and selected from 502 submissions. The papers are

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organized in topical sections on Advanced Computing; Communications; Informatics; Internet of Things; Data Sciences.

Ultra wideband (UWB) communication systems are characterized by high data rates, low cost, multipath immunity, and low power transmission. In 2002, the Federal Communication Commission (FCC) legalized low power UWB emission between 3.1 GHz and 10.6 GHz for indoor communication devices stimulating rapid development of UWB technologies and applications. The proposed book *Novel Applications of the UWB Technologies* consists of 5 parts and 20 chapters concerning the general problems of UWB communication systems, and novel UWB applications in personal area networks (PANs), medicine, radars and localization systems. The book will be interesting for engineers and researchers occupied in the field of UWB technology.

This book constitutes the refereed proceedings of the 15th International Workshop on Communication Technologies for Vehicles, *Nets4Cars/Nets4Trains/Nets4Aircraft 2020*, held in Bordeaux, France, in November 2020. The 18 full papers were carefully reviewed and selected from 22 submissions. The selected papers present original research results in areas related to the physical layer, communication protocols and standards, mobility and traffic models, experimental and field operational testing, and performance analysis.

Starting from voice services with simple terminals, today a mobile device is nothing sort of a small PC in the form of smart-phones. The result has been a huge increase in data-services giving mobile communication access to critical aspects of human society / life. This has led to standardization of SAE/LTE (System Architecture Evolution / Long Term Evolution) by 3GPP and IEEE 802.16e / WiMAX. Together with penetration of mobile communications and new

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standardization come new security issues and thus the need for new security solutions. This book provides a fresh look at those security aspects, with main focus on the latest security developments of 3GPP SAE/LTE and WiMAX. SAE/LTE is also known as Evolved Packet System (EPS). The intended audience for this book is mobile network and device architects, designers, researchers and students. The goal of the authors, who have a combined experience of more than 25 years in mobile security standardization, architecture, research, and education, is to provide the book's readers with a fresh and up-to-date look at the architecture and challenges of EPS and WiMAX security. This book includes 6 chapters, where the first 3 chapters are intended to be introductory ones, and the remaining 3 chapters provide more in-depth discussions. The book starts with Chapter 1 where we give a background of Next Generation Mobile Networks (NGMN) activity and requirements. Following explanation of NGMN, Chapter 2 provides an overview of security, telecommunication systems and their requirements. Chapter 3 provides some background on standardization. Chapter 4 discusses the EPS (or SAE/LTE) security architecture developed by 3GPP. In particular, this chapter covers the authentication and key agreement method for SAE/LTE together with newly defined key hierarchy. This chapter also addresses the challenging aspects of SAE/LTE interworking and mobility with UMTS together with the necessary key-exchange technologies. The focus of Chapter 5 is WiMAX (IEEE 802.16) security. Chapter 5 provides an in-depth discussion of the WiMAX security requirements, the authentication aspects of PKMv2, and the overall WiMAX network security aspects. In Chapter 6 we briefly cover security for (i) Home(evolved)NodeB (H(e)NB) is the Femto solution from 3GPP), (ii) Machine-to-Machine (M2M) security and (iii) Multimedia Broadcast and Multicast Service (MBMS)

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and Group Key Management. Contents: Preface; Introduction to next generation mobile networks (NGMN) and security requirements; Security basics; Standardization process in 3GPP and IEEE/WiMAX; SAE/LTE Security; Security in IEEE 802.16e / WiMAX; Security for other systems like M2M and 3GPP Femto; Abbreviations; Index.

With this essential guide to vehicular networking, you will learn about everything from conceptual approaches and state-of-the-art protocols, to system designs and their evaluation. Covering both in- and inter-vehicle communication, this comprehensive work outlines the foundations of vehicular networking as well as demonstrating its commercial applications, from improved vehicle performance, to entertainment, and traffic information systems. All of this is supported by in-depth case studies and detailed information on proposed protocols and solutions for access technologies and information dissemination, as well as topics on rulemaking, regulations, and standardization. Importantly, for a field which is attracting increasing commercial interest, you will learn about the future trends of this technology, its problems, and solutions to overcome them. Whether you are a student, a communications professional or a researcher, this is an invaluable resource.

One certain thing in the fashion world is change. Fashion is a language which tells a story about the person who wears it. Katherine Hamnett, a Top British Fashion designer describes fashion as “Clothes create a wordless means of communication that we all understand”. Some of the top Institution like NIFT, NID and IIFT conduct their respective entrance exams to provide lucrative and flourishing careers in fashion designing. The Ultimate Guide for NIFT/ NID/ IIFT leads you to the path of fashion and its design, comprehensively covering all the syllabus of almost all the universities and Institutions which are offering the bachelors

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and masters courses in Fashion Designing. The book carries complete study material that covers both Undergraduate and Postgraduate entrance examinations. It has been divided into Seven Sections which are further divided into chapter as per the syllabi and exam pattern. The explanation of each section has well elaborated leave no stones untouched in a lucid manner. After each section 2 Sections Tests provided for the quick revision of the concepts, ample number of MCQs have been provided and for the complete practice 3 Practice Sets have been provided at the end of the book, Detailed Solved Paper 2020 have been provided to give hint to the level and types of questions they come in the exams.

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