Download Free Introduction Modern A Communications Digital

Thank you completely much for downloading **Introduction Modern A Communications Digital**.Maybe you have knowledge that, people have look numerous time for their favorite books afterward this Introduction Modern A Communications Digital, but stop going on in harmful downloads.

Rather than enjoying a good book as soon as a cup of coffee in the afternoon, on the other hand they juggled taking into account some harmful virus inside their computer. **Introduction Modern A Communications Digital** is easy to use in our digital library an online permission to it is set as public as a result you can download it instantly. Our digital library saves in compound countries, allowing you to get the most less latency times to download any of our books once this one. Merely said, the Introduction Modern A Communications Digital is universally compatible next any devices to read.

KEY=A - JULIAN GINA

Modern Communications

A Systematic Introduction

Cambridge University Press *A concise and approachable introductory text for a single-semester course, organized systematically rather than historically. Combining theory with practical implementation, and accompanied online by PowerPoint slides, a solutions manual, and additional problems, it is ideal for a first communications course.*

An Introduction to Digital Communications

John Wiley & Sons Incorporated *The only book available that integrates a realistic design approach with a theoretical approach! This outstanding new book focuses on the central theoretical and practical issues involved in modem design. The first half deals with the basic issues of base-band and passband data transmission and contains descriptions of applications to specific digital transmission systems. The second half specifically addresses design issues including timing and carrier recovery, channel characterization, adaptive equalization, and trellis coding. The author uses simulation programs in Matlab and C to help readers: * Determine the power spectral density of complex data encoding rules * Simulate the performance of passband data transmission techniques * Design and assess the performance of carrier recovery systems * Develop time domain models for a variety of channels * Design and assess the performance of adaptive equalizers * Use existing programs as the framework for creating simulation modules*

Introduction of Modern Digital Communications Systems

Introduction to Strategic Public Relations

Digital, Global, and Socially Responsible Communication

SAGE Publications *Winner of the 2019 Textbook & Academic Authors Association's The Most Promising New Textbook Award How can public relations play a more active role in the betterment of society? Introduction to Strategic Public Relations: Digital, Global, and Socially Responsible Communication prepares you for success in today's fast-changing PR environment. Recognizing that developments in technology, business, and culture require a fresh approach, Janis T. Page and Lawrence Parnell have written a practical introductory text that aligns these shifts with the body of knowledge from which the discipline of public relations was built. Because the practice of public relations is rooted in credibility, the authors believe that you must become ethical and socially responsible communicators more concerned with building trust and respect with diverse communities than with creating throwaway content. The authors balance this approach with a focus on communication theory, history, process, and practice and on understanding how these apply to strategic public relations planning, as well as on learning how to create a believable and persuasive message. Key Features Chapter-opening Scenarios capture your attention by discussing current PR challenges—such as the Wells Fargo cross-selling, VW emissions cover-up, and P&G's "Like a Girl" campaign—and thus frame the chapter content and encourage active reading. At the end of the chapter, you explore various aspects of socially responsible communication to "solve" the PR challenge. Socially Responsible Case Studies in each chapter illustrate the key responsibilities of a modern public relations professional such as media relations, crisis communications, employee communications, applied communications research, and corporate and government-specific communications. Each case features problem-solving questions to encourage critical thinking. Social Responsibility in Action boxes feature short, specific social responsibility cases—such as Universals' #NoFoodWasted, Nespresso in South Sudan, and Merck's collaboration with AIDS activists—to highlight best practices and effective tactics, showing the link between sound public relations strategy and meaningful social responsibility programs. Insight boxes spark classroom discussion on particularly important or unique topics in each chapter. Personality Profile boxes will inspire you with stories from PR veterans and rising stars such as the U.S. CEO of Burson-Marstellor, the Chief Communication Officer of the United Nations Foundation, and the Executive VP at HavasPR.*

Introduction to Wireless Digital Communication

A Signal Processing Perspective

Prentice Hall *The Accessible Guide to Modern Wireless Communication for Undergraduates, Graduates, and Practicing Electrical Engineers Wireless communication is a critical discipline of electrical engineering and computer science, yet the concepts have remained elusive for students who are not specialists in the area. This text makes digital communication and receiver algorithms for wireless communication broadly accessible to undergraduates, graduates, and practicing electrical engineers. Notably, the book builds on a signal processing foundation and does not require prior courses on analog or digital communication. Introduction to Wireless Digital Communication establishes the principles of communication, from a digital signal processing perspective, including key mathematical background, transmitter and receiver signal processing algorithms, channel models, and generalizations to multiple antennas. Robert Heath's "less is more" approach focuses on typical solutions to common problems in wireless engineering. Heath presents digital communication fundamentals from a signal processing perspective, focusing on the complex pulse amplitude modulation approach used in most commercial wireless systems. He describes specific receiver algorithms for implementing wireless communication links, including synchronization, carrier frequency offset estimation, channel estimation, and equalization. While most concepts are presented for systems with single transmit and receive antennas, Heath concludes by extending those concepts to contemporary MIMO systems. To promote learning, each chapter includes previews, bullet-point summaries, examples, and numerous homework problems to help readers test their knowledge. Basics of wireless communication: applications, history, and the central role of signal processing Digital communication essentials: components, channels, distortion, coding/decoding, encryption, and modulation/demodulation Signal processing: linear time invariant systems, probability/random processes, Fourier transforms, derivation of complex baseband signal representation and equivalent channels, and multi-rate signal processing Least-squared estimation techniques that build on the linear algebra typically taught to electrical engineering undergraduates Complex pulse amplitude modulation: symbol mapping, constellations, signal bandwidth, and noise Synchronization, including symbol, frame, and carrier frequency offset Frequency selective channel estimation and equalization MIMO techniques using multiple transmit and/or receive antennas, including SIMO, MISO, and MIMO-OFDM Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available.*

Introduction to Modern EW Systems

Artech House *Master the latest electronic warfare (EW) techniques and technologies related to on-board military platforms with this authoritative resource. You gain expert design guidance on technologies and equipment used to detect and identify emitter threats, giving you an advantage in the never-ending chess game between sensor guided weapons and EW systems. This unique book offers you deeper insight into EW systems principles of operation and their mathematical descriptions, arming you with better knowledge for your specific design applications. Moreover, you get practical information on how to counter modern communications data links which provide connectivity and command flow among the armed forces in the battlefield. Taking a sufficiently broad perspective, this comprehensive volume offers you a panoramic view of the various physical domains ? RF, Infrared, and electronics ? that are present in modern electronic warfare systems. This in-depth book is supported with over 280 illustrations and more than 560 equations.*

Introduction to Digital Communications

Springer Nature *This book offers students, scientists, and engineers an extensive introduction to the theoretical fundamentals of digital communications, covering single-input single-output (SISO), multiple-input multiple-output (MIMO), and time-variant systems. Further, the main content is supplemented by a wealth of representative examples and computer simulations. The book is divided into three parts, the first of which addresses the principles of wire-line and wireless digital transmission over SISO links. Digital modulation, intersymbol interference, and various detection methods are discussed; models for realistic time-variant, wireless channels are introduced; and the equivalent time-variant baseband system model is derived. This book covers two new topics such as blockwise signal transmission and multicarrier modulation with orthogonal frequency-division multiplexing (OFDM) systems. Since not all readers may be familiar with this topic, Part II is devoted to the theory of linear time-variant systems. The generalized convolution is derived, and readers are introduced to impulse response, the delay spread function, and system functions in the frequency domain. In addition, randomly changing systems are discussed. Several new examples and graphs have been added to this book. In turn, Part III deals with MIMO systems. It describes MIMO channel models with and without spatial correlation, including the Kronecker model. Both linear and nonlinear MIMO receivers are investigated. The question of how many bits per channel use can be transmitted is answered, and maximizing channel capacity is addressed. Principles of space–time coding are outlined in order to improve transmission quality and increase data rates. In closing, the book describes multi-user MIMO schemes, which reduce interference when multiple users in the same area transmit their signals in the same time slots and frequency bands.*

Introduction to Digital Signal Processing Using MATLAB with Application to Digital Communications

Springer This textbook provides engineering students with instruction on processing signals encountered in speech, music, and wireless communications using software or hardware by employing basic mathematical methods. The book starts with an overview of signal processing, introducing readers to the field. It goes on to give instruction in converting continuous time signals into digital signals and discusses various methods to process the digital signals, such as filtering. The author uses MATLAB throughout as a user-friendly software tool to perform various digital signal processing algorithms and to simulate real-time systems. Readers learn how to convert analog signals into digital signals; how to process these signals using software or hardware; and how to write algorithms to perform useful operations on the acquired signals such as filtering, detecting digitally modulated signals, correcting channel distortions, etc. Students are also shown how to convert MATLAB codes into firmware codes. Further, students will be able to apply the basic digital signal processing techniques in their workplace. The book is based on the author's popular online course at University of California, San Diego.

An Introduction to The Principles of Digital Communication

New Age International

Introduction to Digital Communication Systems

John Wiley & Sons Combining theoretical knowledge and practical applications, this advanced-level textbook covers the most important aspects of contemporary digital communication systems. Introduction to Digital Communication Systems focuses on the rules of functioning digital communication system blocks, starting with the performance limits set by the information theory. Drawing on information relating to turbo codes and LDPC codes, the text presents the basic methods of error correction and detection, followed by baseband transmission methods, and single- and multi-carrier digital modulations. The basic properties of several physical communication channels used in digital communication systems are explained, showing the transmission and reception methods on channels suffering from intersymbol interference. The text also describes the most recent developments in the transmission techniques specific to wireless communications used both in wireline and wireless systems. The case studies are a unique feature of this book, illustrating elements of the theory developed in each chapter. Introduction to Digital Communication Systems provides a concise approach to digital communications, with practical examples and problems to supplement the text. There is also a companion website featuring an instructors' solutions manual and presentation slides to aid understanding. Offers theoretical and practical knowledge in a self-contained textbook on digital communications Explains basic rules of recent achievements in digital communication systems such as MIMO, turbo codes, LDPC codes, OFDMA, SC-FDMA Provides problems at the end of each chapter with an instructors' solutions manual on the companion website Includes case studies and representative communication system examples such as DVB-S, GSM, UMTS, 3GPP-LTE

Introduction to Communication Systems

Cambridge University Press An accessible undergraduate textbook introducing key fundamental principles behind modern communication systems, supported by exercises, software problems and lab exercises.

Introduction to Digital Communications

Academic Press Introduction to Digital Communications explores the basic principles in the analysis and design of digital communication systems, including design objectives, constraints and trade-offs. After portraying the big picture and laying the background material, this book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications. The first undergraduate-level textbook exclusively on digital communications, with a complete coverage of source and channel coding, modulation, and synchronization. Discusses major aspects of communication networks and multiuser communications Provides insightful descriptions and intuitive explanations of all complex concepts Focuses on practical applications and illustrative examples. A companion Web site includes solutions to end-of-chapter problems and computer exercises, lecture slides, and figures and tables from the text

Introduction to Digital Speech Processing

Now Publishers Inc Introduction to Digital Speech Processing highlights the central role of DSP techniques in modern speech communication research and applications. It presents a comprehensive overview of digital speech processing that ranges from the basic nature of the speech signal, through a variety of methods of representing speech in digital form, to applications in voice communication and automatic synthesis and recognition of speech. Introduction to Digital Speech Processing provides the reader with a practical introduction to the wide range of important concepts that comprise the field of digital speech processing. It serves as an invaluable reference for students embarking on speech research as well as the experienced researcher already working in the field, who can utilize the book as a reference guide.

Design: A Very Short Introduction

Oxford University Press This book will transform the way you think about design by showing how integral it is to our daily lives, from the spoon we use to eat our breakfast cereal to the medical equipment used to save lives. John Heskett goes beyond style and taste to look at how different cultures and individuals personalise objects.

Introduction to Digital Professional Mobile Radio

Artech House If you are involved in the planning, design, testing, installation, maintenance, sales, or frequency management of digital PMR equipment and systems, this first-of-its-kind book is a smart choice. Written by one of the key developers of PMR, this essential reference provides comprehensive coverage of digital PMR systems, including the standards APCO 25, TETRA and DIIS and the proprietary systems ASTRO, EDACS, iDEN, MOBITEX II and TETRAPOL. Offering unique insight from the author's years of experience working with this technology, the book helps you gain a solid understanding of the transition from analogue to digital PMR. It provides you with methods for estimation coverage distance and bandwidth for digital PMR systems.

Essentials of Modern Communications

John Wiley & Sons Explore Modern Communications and Understand Principles of Operations, Appropriate Technologies, and Elements of Design of Communication Systems Modern society requires a different set of communication systems than has any previous generation. To maintain and improve the contemporary communication systems that meet ever-changing requirements, engineers need to know how to recognize and solve cardinal problems. In Essentials of Modern Communications, readers will learn how modern communication has expanded and will discover where it is likely to go in the future. By discussing the fundamental principles, methods, and techniques used in various communication systems, this book helps engineers assess, troubleshoot, and fix problems that are likely to occur. In this reference, readers will learn about topics like: How communication systems respond in time and frequency domains Principles of analog and digital modulations Application of spectral analysis to modern communication systems based on the Fourier series and Fourier transform Specific examples and problems, with discussions around their optimal solutions, limitations, and applications Approaches to solving the concrete engineering problems of modern communications based on critical, logical, creative, and out-of-box thinking For readers looking for a resource on the fundamentals of modern communications and the possible issues they face, Essentials of Modern Communications is instrumental in educating on real-life problems that engineering students and professionals are likely to encounter.

Digital Products

Living Data is the Future

Springer Science & Business Media In addition to the classical needs, competition on the global market requires from industry product innovations: quality, time to market, reduction of costs (Q,T,C). The modern process networks of product development and manufacturing passing the borders of countries and including several companies could not work without an extensive use of information technology. This is going far beyond the former idea of Computer Aided Design. Thus the 3'd Workshop on Current CAx-Problems did not focus on functionalities or methods aiding design like in the first two workshops but on "Digital Products - Living Data is the Future": problems of the virtual simulation of the entire industrial process, starting with the development of a product and covering the complete life cycle. The workshop aimed at bringing together the three groups: industry (mainly automotive manufacturers), system suppliers, and fundamental research. During the workshop, communication between these three groups had to be intensified, and especially also among competing companies of the same branch to pave the way for concerted actions, which are essential for all in the future.

Advances in Design and Digital Communication

Proceedings of the 4th International Conference on Design and Digital

Communication, Digicom 2020, November 5–7, 2020, Barcelos, Portugal

Springer Nature *This book reports on research findings and practical lessons featuring advances in: digital and interaction design; graphic design and branding; design strategies and methodologies; design education; society and communication in design practice; and other related areas. Gathering the proceedings of the the 4th International Conference on Digital Design and Communication, Digicom 2020, held virtually on November 5-6, 2020, the book describes cutting-edge perspectives on and analysis of and solutions to challenges digital communication is currently presenting to society, institutions and brands. It offers a timely guide and a source of inspiration for designers of all kinds, including graphic, digital and web designers, UI, UX and social media designers, and to researchers, advertisers, artists, and entrepreneurs, as well as brand or corporate communication managers.*

Introduction to CDMA Wireless Communications

Academic Press *The book gives an in-depth study of the principles of the spread spectrum techniques and their applications in mobile communications. It starts with solid foundations in the digital communications that are essential to unequivocal understanding of the CDMA technology, and guides the reader through the fundamentals and characteristics of cellular CDMA communications. Features include: * A very clear and thorough description of the principles and applications of spread spectrum techniques in multi-user mobile communications. * Matlab-based worked examples, exercises and practical sessions to clearly explain the theoretical concepts. * An easy-to-read explanation of the air interface standards used in IS-95 A/B, cdma2000, and 3G WCDMA. * Clear presentations of the high speed downlink and uplink packet access (HSDPA/HSUPA) techniques used in 3G WCDMA. The book is a very suitable introduction to the principles of CDMA communications for senior undergraduate and graduate students, as well researchers and engineers in industry who are looking to develop their expertise. A very clear and thorough description of the principles and applications of spread spectrum techniques in multi-user mobile communications. Matlab-based worked examples, exercises and practical sessions to clearly explain the theoretical concepts. An easy-to-read explanation of the air interface standards used in IS-95 A/B, cdma2000, and 3G WCDMA. Clear presentations of the high speed downlink and uplink packet access (HSDPA/HSUPA) techniques used in 3G WCDMA.*

Modern Communications

A Systematic Introduction

Cambridge University Press *Designed for a single-semester course, this concise and approachable text covers all of the essential concepts needed to understand modern communications systems. Balancing theory with practical implementation, it presents key ideas as a chain of functions for a transmitter and receiver, covering topics such as amplification, up- and down-conversion, modulation, dispersive channel compensation, error-correcting codes, acquisition, multiple-antenna and multiple-input multiple-output antenna techniques, and higher level communications functions. Analog modulations are also presented, and all of the basic and advanced mathematics, statistics, and Fourier theory needed to understand the concepts covered is included. Supported online with PowerPoint slides, a solutions manual, and additional MATLAB-based simulation problems, it is ideal for a first course in communications for senior undergraduate and graduate students.*

Digital Body Language

How to Build Trust and Connection, No Matter the Distance

St. Martin's Press *An instant Wall Street Journal Bestseller The definitive guide to communicating and connecting in a hybrid world. Email replies that show up a week later. Video chats full of "oops sorry no you go" and "can you hear me?!" Ambiguous text-messages. Weird punctuation you can't make heads or tails of. Is it any wonder communication takes us so much time and effort to figure out? How did we lose our innate capacity to understand each other? Humans rely on body language to connect and build trust, but with most of our communication happening from behind a screen, traditional body language signals are no longer visible -- or are they? In Digital Body Language, Erica Dhawan, a go-to thought leader on collaboration and a passionate communication junkie, combines cutting edge research with engaging storytelling to decode the new signals and cues that have replaced traditional body language across genders, generations, and culture. In real life, we lean in, uncross our arms, smile, nod and make eye contact to show we listen and care. Online, reading carefully is the new listening. Writing clearly is the new empathy. And a phone or video call is worth a thousand emails. Digital Body Language will turn your daily misunderstandings into a set of collectively understood laws that foster connection, no matter the distance. Dhawan investigates a wide array of exchanges—from large conferences and video meetings to daily emails, texts, IMs, and conference calls—and offers insights and solutions to build trust and clarity to anyone in our ever changing world.*

Modern Communications Technology

Walter de Gruyter GmbH & Co KG *The book explains in a comprehensive way the basic terms of communication engineering, giving a proper amount of the needed mathematical background and explanations of the physical nature of the problems.The theory of communication sciences is explained by using knowledge and examples from real-world applications.The information is presentedin a waythat isunderstandable also for those whoare not directlyinvolved in communication sciences, but would like to learn more about them.*

Introduction to Communications Engineering

John Wiley & Sons *Presents thorough coverage of the engineering aspects of modern communication systems, paying particular attention to the practical system considerations in the end-to-end construction of a typical communication link. The text is designed to provide readers with a solid background in current terminology, methodology, and procedures. This updated edition places greater emphasis on modern technology and hardware considerations, with integrated treatment of analog and digital systems. Includes new new material on oscillators, frequency generators, mixers, amplifiers, and digital and switching circuitry. Contains new examples and problems.*

Digital Transformation and Global Society

First International Conference, DTGS 2016, St. Petersburg, Russia, June 22-24, 2016, Revised Selected Papers

Springer *This book constitutes the refereed proceedings of the First International Conference on Digital Transformation and Global Society, DTGS 2016, held in St. Petersburg, Russia, in June 2016. The 43 revised full papers and 15 revised short papers, presented together with 3 poster papers and an invited paper were carefully reviewed and selected from 157 submissions. The papers are organized in topical sections on eSociety: New Social Media Studies; eSociety: eGovernment and eParticipation: Perspectives on ICTs in Public Administration and Democracy; eKnowledge: ICTs in Learning and Education Management; eCity: ICTs for Better Urban (Rural) Planning and Living; eHealth: ICTs in Healthcare; eScience: Big Data Complex Calculations.*

Chaotic Signals in Digital Communications

CRC Press *Chaotic Signals in Digital Communications combines fundamental background knowledge with state-of-the-art methods for using chaotic signals and systems in digital communications. The book builds a bridge between theoretical works and practical implementation to help researchers attain consistent performance in realistic environments. It shows the possible shortcomings of the chaos-based communication systems proposed in the literature, particularly when they are subjected to non-ideal conditions. It also presents a toolbox of techniques for researchers working to actually implement such systems. A Combination of Tutorials and In-Depth, Cutting-Edge Research Featuring contributions by active leading researchers, the book begins with an introduction to communication theory, dynamical systems, and chaotic communications suitable for those new to the field. This lays a solid foundation for the more applied chapters that follow. A Toolbox of Techniques—Including New Ways to Tackle Channel Imperfections The book covers typical chaos communication methods, namely chaotic masking, chaotic modulation, chaotic shift key, and symbolic message bearing, as well as bidirectional communication and secure communication. It also presents novel methodologies to deal with communication channel imperfections. These tackle band-limited channel chaos communication, radio channels with fading, and the resistance of a special chaotic signal to multipath propagations. In addition, the book addresses topics related to engineering applications, such as optical communications, chaotic matched filters and circuit implementations, and microwave frequency-modulated differential chaos shift keying (FM-DCSK) systems. Insights for Both Theoretical and Experimental Researchers Combining theory and practice, this book offers a unique perspective on chaotic communication in the context of non-ideal conditions. Written for theoretical and experimental researchers, it tackles the practical issues faced in implementing chaos-based signals and systems in digital communications applications.*

Communication Mosaics: An Introduction to the Field of Communication

Cengage Learning *COMMUNICATION MOSAICS: AN INTRODUCTION TO THE FIELD OF COMMUNICATION, 8E draws from the most up-to-date research, theories, and technological information to provide both an overview of the field and practical applications you can immediately use to improve your personal, professional, and public communication skills. Extremely student friendly, the text combines the author's signature first-person narrative style with popular student commentaries. It introduces the basic processes and skills central to all communication contexts and then explains how these aspects of communication are applied in specific contexts such as interpersonal and public speaking. New coverage in Chapter 13 walks you step-by-step through the process of planning and preparing a public speech. As you progress through the text, each chapter ends with a case study enabling you to put what you learn into practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

Introduction to Digital Mobile Communication

John Wiley & Sons *Introduces digital mobile communications with an emphasis on digital transmission methods This book presents mathematical analyses of signals, mobile radio channels, and digital modulation methods. The new edition covers the evolution of wireless communications technologies and systems. The major new topics are OFDM (orthogonal frequency domain multiplexing), MIMO (multi-input multi-output) systems, frequency-domain equalization, the turbo codes, LDPC (low density parity check code), ACELP (algebraic code excited linear predictive) voice coding, dynamic scheduling for wireless packet data transmission and nonlinearity compensating digital pre-distorter amplifiers. The new systems using the above mentioned technologies include the second generation evolution systems, the third generation systems with their evolution systems, LTE and LTE-advanced systems, and advanced wireless local area network systems. The second edition of Digital Mobile Communication: Presents basic concepts and applications to a variety of mobile communication systems Discusses current applications of modern digital mobile communication systems Covers the evolution of wireless communications technologies and systems in conjunction with their background The second edition of Digital Mobile Communication is an important textbook for university students, researchers, and engineers involved in wireless communications.*

Architectures for Baseband Signal Processing

Springer Science & Business Media *This book addresses challenges faced by both the algorithm designer and the chip designer, who need to deal with the ongoing increase of algorithmic complexity and required data throughput for today's mobile applications. The focus is on implementation aspects and implementation constraints of individual components that are needed in transceivers for current standards, such as UMTS, LTE, WiMAX and DVB-S2. The application domain is the so called outer receiver, which comprises the channel coding, interleaving stages, modulator, and multiple antenna transmission. Throughout the book, the focus is on advanced algorithms that are actually in use in modern communications systems. Their basic principles are always derived with a focus on the resulting communications and implementation performance. As a result, this book serves as a valuable reference for two, typically disparate audiences in communication systems and hardware design.*

Critical Factors for the Successful Introduction of Internal Communication Portals in the Retail Sector

PubliQation *Digitization has led to a revolution in the retail sector. Terms such as big data, automation, artificial intelligence and connectivity are commonly used to describe ways of working, work content and professions. Along with the concomitant increase in importance of data connectivity and the knowledge potentially resulting therefrom comes an increase in internal portal solutions. Companies anticipate the digital workplace to bring about new, more agile ways of working. In this study internal corporate communication is viewed in the context of the behavioral theory of the firm according to Cyert und March and the symbolic interactionism theory according to Blumer. Critical factors for success of portal-based internal corporate communications of retail companies registered in Germany were investigated and, based on the results, recommendations for managers who are responsible for introducing a communication portal were formulated.*

Competitive Russia: Foresight Model of Economic and Legal Development in the Digital Age

Proceedings of the International Scientific Conference in Memory of Oleg Inshakov (1952-2018)

Springer Nature *This proceedings book presents papers from the 18th International Scientific Conference, held in September 2019 at Volgograd State University (Russia). The research findings are largely based on the theoretical assumptions of Oleg Inshakov, renowned for his pioneering work on the theory of economic genetics and the theory of "development nucleus" for economic systems. The papers focus on the impact of the 4th industrial revolution on economic growth, the concept of ecosystems corresponding to the rapid spread of digital technologies, regulatory and legal aspects of the Russian economy digitalization, the development of digital technologies in EAEU and BRICS foreign trade, and the corresponding law enforcement measures. The book is intended for academics and practitioners, as well as anyone interested in the problems of new industrialization and the digital transformation of the economy of business entities, regions, countries and integration unions, and their legal regulation to enhance competitiveness on a national and global scale*

Digital Communications

Technical Publications *There are eight chapters, useful appendix and solved question papers in the book. Basic digital communication, line codes and sampling methods are presented at the beginning. Digital pulse modulation techniques such as PCM, DPCM, DM, ADM are presented. Continuous wave digital modulation methods such as BPSK, DPSK, QPSK, QAM, BFSK and OOK are presented with mathematical analysis of modulators and receivers. Issues related to baseband transmission such as ISI, Nyquist pulse shaping criterian, optimum reception, matched filter and eye patterns are also discussed. Concepts of information theory such as discrete memoryless channels, mutual information, shannon's theorems on source coding are also presented. Coding using linear block codes, cyclic codes and convolutional coding is also discussed. Secured communication using spread spectrum modulation is also discussed in detail.*

Principles of Modern Communications Technology

Artech House *Here's an easy-to-comprehend book that gives you a complete introduction to communication technologies and systems, offering you a solid understanding of the fundamentals, history and future direction of this ever-changing field. Geared towards non-technical business professionals and students, this unique resource integrates human physiology and factors, important inventors and business people, and basic technological principles to explain the key concepts and developments of modern communications.*

Communications and Multimedia Security II

Springer *In multimedia and communication environments all documents must be protected against attacks. The movie Forrest Gump showed how multimedia documents can be manipulated. The required security can be achieved by a number of different security measures. This book provides an overview of the current research in Multimedia and Communication Security. A broad variety of subjects are addressed including: network security; attacks; cryptographic techniques; healthcare and telemedicine; security infrastructures; payment systems; access control; models and policies; auditing and firewalls. This volume contains the selected proceedings of the joint conference on Communications and Multimedia Security; organized by the International Federation for Information processing and supported by the Austrian Computer Society, Gesellschaft fuer Informatik e.V. and TeleTrust Deutschland e.V. The conference took place in Essen, Germany, in September 1996*

Principles of Digital Communications

Principles of Digital Communication

A Top-Down Approach

Automatic Modulation Recognition of Communication Signals

Springer Science & Business Media *Automatic modulation recognition is a rapidly evolving area of signal analysis. In recent years, interest from the academic and military research institutes has focused around the research and development of modulation recognition algorithms. Any communication intelligence (COMINT) system comprises three main blocks: receiver front-end, modulation recogniser and output stage. Considerable work has been done in the area of receiver front-ends. The work at the output stage is concerned with information extraction, recording and exploitation and begins with signal demodulation, that requires accurate knowledge about the signal modulation type. There are, however, two main reasons for knowing the current modulation type of a signal; to preserve the signal information content and to decide upon the suitable counter action, such as jamming. Automatic Modulation Recognition of Communications Signals describes in depth this modulation recognition process. Drawing on several years of research, the authors provide a critical review of automatic modulation recognition. This includes techniques for recognising digitally modulated signals. The book also gives comprehensive treatment of using artificial neural networks for recognising modulation types. Automatic Modulation Recognition of Communications Signals is the first comprehensive book on automatic modulation recognition. It is essential reading for researchers and practising engineers in the field. It is also a valuable text for an advanced course on the subject.*

Belarus Telecom Laws and Regulations Handbook Volume 1 Strategic Information and

Basic Regulations

Lulu.com

Lightwave Communications

Cambridge University Press *This pioneering, course-tested text is the first to combine communications theory with the physics of optical communications. Comprehensive and rigorous, it brings together an in-depth treatment of the physical characteristics of the guided lightwave channel with the study of modern methods of algorithmic-based communication in time and space. The many different levels at which a lightwave communication signal can be described are integrated to provide a unified explanation of how a commonplace bit stream is transformed into a physical lightwave, how that lightwave travels through an optical fiber, and how it is then transformed back into the bit stream. Background fundamentals such as linear systems and electromagnetics are explained in relation to modern topics such as channel models, encoding, modulation and interference, and end-of-chapter problems are provided throughout. This is an essential text for students taking courses on optical communications, as well as researchers and professionals working in the area.*

Telecommunication Systems

Principles and Applications of Wireless-Optical Technologies

BoD – Books on Demand *This book is based on both industrial and academic research efforts in which a number of recent advancements and rare insights into telecommunication systems are well presented. The volume is organized into four parts: "Telecommunication Protocol, Optimization, and Security Frameworks", "Next-Generation Optical Access Technologies", "Convergence of Wireless-Optical Networks" and "Advanced Relay and Antenna Systems for Smart Networks." Chapters within these parts are self-contained and cross-referenced to facilitate further study.*

Digital Communication for Practicing Engineers

John Wiley & Sons *Offers concise, practical knowledge on modern communication systems to help students transition smoothly into the workplace and beyond This book presents the most relevant concepts and technologies of today's communication systems and presents them in a concise and intuitive manner. It covers advanced topics such as Orthogonal Frequency-Division Multiplexing (OFDM) and Multiple-Input Multiple-Output (MIMO) Technology, which are enabling technologies for modern communication systems such as WiFi (including the latest enhancements) and LTE-Advanced. Following a brief introduction to the field, Digital Communication for Practicing Engineers immerses readers in the theories and technologies that engineers deal with. It starts off with Shannon Theorem and Information Theory, before moving on to basic modules of a communication system, including modulation, statistical detection, channel coding, synchronization, and equalization. The next part of the book discusses advanced topics such as OFDM and MIMO, and introduces several emerging technologies in the context of 5G cellular system radio interface. The book closes by outlining several current research areas in digital communications. In addition, this text: Breaks down the subject into self-contained lectures, which can be read individually or as a whole Focuses on the pros and cons of widely used techniques, while providing references for detailed mathematical analysis Follows the current technology trends, including advanced topics such as OFDM and MIMO Touches on content this is not usually contained in textbooks such as cyclo-stationary symbol timing recovery, adaptive self-interference canceler, and Tomlinson-Harashima precoder Includes many illustrations, homework problems, and examples Digital Communication for Practicing Engineers is an ideal guide for graduate students and professionals in digital communication looking to understand, work with, and adapt to the current and future technology.*