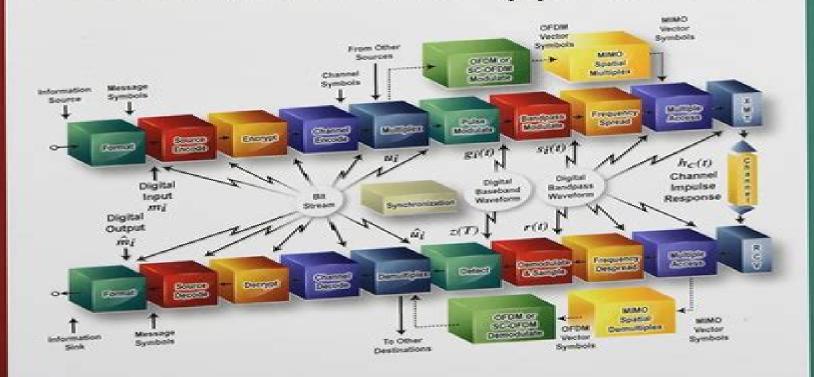
Digital Communications Fundamentals and Applications





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Grundlagen der digitalen

Informationsübertragung Peter Adam Höher, 2013-05-23 Die Informations und Kommunikationstechnik hat in den letzten Jahrzehnten enorm an Bedeutung gewonnen Umso wichtiger wird die Vermittlung von Grundlagenwissen in der digitalen Informations bertragung Aktuelle Forschungsgebiete wie Mehrantennensysteme MIMO Systeme Mehrnutzerkommunikation und Netzwerkcodierung basieren auf informationstheoretischen Ans tzen aber auch auf Kenntnissen der Codierungstheorie der bertragungstechnik und der Sch tzverfahren Im Vordergrund dieses Lehrbuchs stehen leistungsf hige drahtlose bertragungstechniken unter besonderer Ber cksichtigung des Mobilfunks Die meisten Prinzipien und Verfahren sind aber auch in anderen Bereichen der digitalen bertragungstechnik und verwandten Gebieten anwendbar Durch Querverweise wird ein Zusammenhang zwischen den Teilbereichen hergestellt und der Leser somit in die Lage versetzt die wesentlichen Facetten der digitalen Informations bertragung ganzheitlich zu erfassen In der vollst ndig berarbeiteten und erweiterten 2 Auflage wurden aufstrebende Themen wie Netzwerkcodierung ratenlose Codierung Compressed Sensing Ultra Breitbandkommunikation Software Defined Radio und Cognitive Radio neu ber cksichtigt Aktuelle Themen wie Mehrnutzer Informationstheorie Rate Distortion Theorie LDPC Codes iterative Decodierverfahren und zugeh rige Analysemethoden Superpositionsmodulation Mehrtr gerverfahren Mehrantennensystem und Interferenzunterdr ckung wurden vertiefend Introduction to Digital Communications Ali Grami, 2025-06-20 Introduction to Digital Communications Second behandelt Edition is written for upper level undergraduate courses who need to understand 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 the book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications The second edition has been fully revised with timely new chapters on wireless enabling systems and encryption more practical examples more application focused real world end of chapter exercises and a more crisp and concise approach to the content Focuses exclusively on digital communications with 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

Includes a companion website with solutions to end of chapter problems and computer exercises lecture slides and figures and tables from the text Presents enhanced coverage of signal space constellations phase locked loop and link analysis

Digital Communications Jerry D. Gibson, 2023-05-22 This book develops the concepts for the transmission of digital information sequences through analog band limited channels including the topics of pulse shaping channels with amplitude and delay distortion eye patterns zero forcing and mean squared error equalization and data scrambling The text considers the effects of noise in digital communications developing the fundamental ideas of signal space optimum symbol by symbol detection and modulation system design with particular emphasis on maximum likelihood and maximum a posteriori detection and system performance comparisons based on energy per bit to noise ratio and average error probability. The key technique of maximum likelihood sequence estimation is also developed Tutorial coverage provides an introduction to block and convolutional codes for error control coding including coding and decoding methods for error detection and correction tree and trellis representations and Viterbi decoding Some performance comparisons for selected codes in terms of energy per bit to noise ratio versus bit error probability are presented This book examines joint coding and modulation methods such as constant envelope modulation and trellis coded modulation including examples such as minimum shift keying and offset quadrature phase shift keying Mobile Communications Handbook Jerry D. Gibson, 2017-12-19 With 26 entirely new and 5 extensively revised chapters out of the total of 39 the Mobile Communications Handbook Third Edition presents an in depth and up to date overview of the full range of wireless and mobile technologies that we rely on every day This includes but is not limited to everything from digital cellular mobile radio and evolving personal communication systems to wireless data and wireless networks Illustrating the extraordinary evolution of wireless communications and networks in the last 15 years this book is divided into five sections Basic Principles provides the essential underpinnings for the wide ranging mobile communication technologies currently in use throughout the world Wireless Standards contains technical details of the standards we use every day as well as insights into their development Source Compression and Quality Assessment covers the compression techniques used to represent voice and video for transmission over mobile communications systems as well as how the delivered voice and video quality are assessed Wireless Networks examines the wide range of current and developing wireless networks and wireless methodologies Emerging Applications explores newly developed areas of vehicular communications and 60 GHz wireless communications Written by experts from industry and academia this book provides a succinct overview of each topic quickly bringing the reader up to date but with sufficient detail and references to enable deeper investigations Providing much more than a just the facts presentation contributors use their experience in the field to provide insights into how each topic has emerged and to point toward forthcoming developments in mobile Grundlagen der Nachrichtentechnik Carsten Roppel, 2023-09-11 Die Grundlagen der Nachrichtentechnik communications anschaulich erkl rt Die Nachrichten bzw Kommunikationstechnik spielt in vielen Bereichen eine wichtige Rolle in der

Elektromobilit t in der Industrie 4 0 oder im Smart Home Die Entwicklung Planung und der Betrieb von nachrichtentechnischen Systemen sind ohne den Einsatz von leistungsf higen Messger ten Entwicklungs und Simulationswerkzeugen nicht denkbar Eine erfolgreiche und effiziente Arbeit mit diesen Werkzeugen setzt fundierte Grundkenntnisse der Nachrichtentechnik voraus Dieses Lehrbuch vermittelt das hierzu erforderliche Wissen Der Schwerpunkt liegt auf den grundlegenden Verfahren und Prinzipien Ausf hrliche Erl uterungen mit vielen anschaulichen Abbildungen und bungsaufgaben erleichtern das Verst ndnis Zahlreiche Beispiele stellen den Bezug zur Praxis her und gehen auf aktuelle Entwicklungen ein Simulationen mit MATLAB Scilab und Python tragen ebenfalls zum Verst ndnis bei und geben Anregungen fr eigene Experimente Das Buch richtet sich vorrangig an Studierende der Fachrichtungen Elektrotechnik und Informationstechnik und verwandter Studieng nge Es eignet sich aber auch fr Anwender innen und Entwickler innen in der Kommunikationstechnik Fr die 2 Auflage wurden im Kapitel 6 ein neuer Abschnitt Modulationsfehler EVM und MER und einige zus tzliche Beispiele eingef gt Zudem wurden Bilder und Text teilweise berarbeitet und aktualisiert Auch die Begleitmaterialen wurden erg nzt Auf plus hanser fachbuch de findet man nun zus tzlich zu den schon vorhandenen MATLAB und Scilab Dateien die Simulation eines bertragungssystems mit Python Digital Communications ,2001 Communication V.K.Khanna, 2009 This textbook is for undergratuate students of electronics and telecommunication engineering and allied disciplines as well as diploma and science courses This book offers on introductory survey of the conceptual development of the subject It provides a simple and lucid presentations of the essential principles formulae and definitions of Digital Communications Introduction to RF Propagation John S. Seybold, 2005-09-19 An introduction to RF propagation that spans all wireless applications This book provides readers with a solid understanding of the concepts involved in the propagation of electromagnetic waves and of the commonly used modeling techniques While many books cover RF propagation most are geared to cellular telephone systems and therefore are limited in scope This title is comprehensive it treats the growing number of wireless applications that range well beyond the mobile telecommunications industry including radar and satellite communications The author's straightforward clear style makes it easy for readers to gain the necessary background in electromagnetics communication theory and probability so they can advance to propagation models for near earth indoor and earth space propagation Critical topics that readers would otherwise have to search a number of resources to find are included RF safety chapter provides a concise presentation of FCC recommendations including application examples and prepares readers to work with real world propagating systems Antenna chapter provides an introduction to a wide variety of antennas and techniques for antenna analysis including a detailed treatment of antenna polarization and axial ratio the chapter contains a set of curves that permit readers to estimate polarization loss due to axial ratio mismatch between transmitting and receiving antennas without performing detailed calculations Atmospheric effects chapter provides curves of typical atmospheric loss so that expected loss can be determined

easily Rain attenuation chapter features a summary of how to apply the ITU and Crane rain models Satellite communication chapter provides the details of earth space propagation analysis including rain attenuation atmospheric absorption path length determination and noise temperature determination Examples of widely used models provide all the details and information needed to allow readers to apply the models with confidence References provided throughout the book enable readers to explore particular topics in greater depth Additionally an accompanying Wiley ftp site provides supporting MathCad files for select figures in the book With its emphasis on fundamentals detailed examples and comprehensive coverage of models and applications this is an excellent text for upper level undergraduate or graduate students or for the practicing engineer who needs to develop an understanding of propagation phenomena Mobilfunknetze und ihre Protokolle Bernhard Walke, 2013-03-09 Mobilfunknetze Schnurlossysteme und drahtloser Internetzugang sind seit Jahren der am st rksten wachsende Bereich und der Hauptumsatztr ger in der Kommunikationsindustrie Dieses zweib ndige Werk behandelt alle wichtigen standardisierten digital bertragenden Systeme unter dem Gesichtspunkt ihrer internen Organisation anhand ihrer Dienste und Protokolle Es unterscheidet sich dadurch von den meisten am Markt verf gbaren Mobilfunkb chern die im wesentlichen Funkausbreitungsph nomene und ihre Nutzung fr die digitale Nachrichten bertragung zum Gegenstand haben Der erste Band behandelt die Grundlagen fralle wichtigen standardisierten Systeme wie GSM und UMTS Fr diese zweite Auflage wurde speziell der Teil zum System UMTS entscheidend aktualisiert und erweitert Beispielen Josef Hoffmann, Franz Quint, 2016-09-12 Dieses Buch bietet eine verst ndliche Darstellung der grundlegenden Themen der Signalverarbeitung mit Hilfe der MATLAB und Simulink Software Die Darstellung ist so gegliedert dass die Themen zun chst intuitiv mit Bildern eingef hrt werden Zum Untermauern der intuitiven Argumentation folgt eine Systemanalyse und Optimierung der Ultrabreitband-Übertragung Jens mathematische Behandlung Timmermann, 2014-08-13 Die Arbeit untersucht Funk bertragung bei extrem gro er Bandbreite Zur bertragung werden Komponenten ben tigt die ber der gesamten Bandbreite konstante Eigenschaften aufweisen Dies ist in der Realit t nicht realisierbar und f hrt zu Signalst rungen Die Arbeit modelliert solche Nicht Idealit ten bindet sie in ein messdatenbasiertes Systemmodell ein untersucht das Systemverhalten und optimiert die Performance durch Methoden der Kompensation und optimaler Signalisierung Digital Communication for Practicing Engineers Feng Ouyang, 2019-10-01 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 Green IT Engineering: Concepts, Models, Complex Systems Architectures Vyacheslav Kharchenko, Yuriy Kondratenko, Janusz Kacprzyk, 2016-09-21 This volume provides a comprehensive state of the art overview of a series of advanced trends and concepts that have recently been proposed in the area of green information technologies engineering as well as of design and development methodologies for models and complex systems architectures and their intelligent components The contributions included in the volume have their roots in the authors presentations and vivid discussions that have followed the presentations at a series of workshop and seminars held within the international TEMPUS project GreenCo project in United Kingdom Italy Portugal Sweden and the Ukraine during 2013 2015 and at the 1st 5th Workshops on Green and Safe Computing GreenSCom held in Russia Slovakia and the Ukraine The book presents a systematic exposition of research on principles models components and complex systems and a description of industry and society oriented aspects of the green IT engineering A chapter oriented structure has been adopted for this book following a vertical view of the green IT from hardware CPU and FPGA and software components to complex industrial systems The 15 chapters of the book are grouped into five sections 1 Methodology and Principles of Green IT Engineering for Complex Systems 2 Green Components and Programmable Systems 3 Green Internet Computing Cloud and Communication Systems 4 Modeling and Assessment of Green Computer Systems and Infrastructures and 5 Green PLC Based Systems for Industry Applications The chapters provide an easy to follow comprehensive introduction to the topics that are addressed including the most relevant references so that anyone interested in them can start the study by being able to easily find an introduction to the topic through these references At the same time all of them correspond to different aspects of the work in progress being carried out by various research groups throughout the world and therefore provide information on the state of the art of some of these topics challenges and perspectives Digital Communications Mehmet Safak, 2017-01-09 This is a modern textbook on digital communications and is designed for senior undergraduate and graduate students whilst also providing a

valuable reference for those working in the telecommunications industry It provides a simple and thorough access to a wide range of topics through use of figures tables examples and problem sets The author provides an integrated approach between RF engineering and statistical theory of communications Intuitive explanations of the theoretical and practical aspects of telecommunications help the reader to acquire a deeper understanding of the topics The book covers the fundamentals of antennas channel modelling receiver system noise A D conversion of signals PCM baseband transmission optimum receiver modulation techniques error control coding OFDM fading channels diversity and combining techniques MIMO systems and cooperative communications It will be an essential reference for all students and practitioners in the electrical engineering field

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