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Dieses Buch, so schreibt Prof. Dr. Jürgen Scherff von der FH Furtwangen, bietet "praxis- und detailgerechtes Wissen zu mobilen Kommunikationssystemen". Es führt klar und verständlich in die Technik und praktische Umsetzung von GSM, GPRS, UMTS, HSDPA, Wireless LAN und Bluetooth ein. Anhand vieler Beispiele wird fundiertes Wissen vermittelt und aufgezeigt, welche Möglichkeiten und Grenzen die unterschiedlichen Konzepte haben. Durch viele Vergleiche wird deutlich, welche Kombination der Systeme für die unterschiedlichsten Anwendungen jeweils am besten geeignet ist. Die dritte Auflage des Buches enthält ausführliche Ergänzungen über die neuesten Entwicklungen im Bereich von GPRS, UMTS, Wireless LAN und Bluetooth. Das Buch richtet sich an Studierende der Elektrotechnik und Informatik sowie an IT- und Telekommunikationsingenieure in der Praxis und Weiterbildung.

Written by an expert in the field, this book covers the principles, architectures, applications, specifications and characterizations of radio receivers. In this book, the author introduces the reader to the basic principles and theories of present-day communications receiver technology. The first section of the book presents realization concepts at the system level, taking into consideration the various types of users. Details of the circuitry are described providing the reader with an understanding of fully digitized radio receivers, offering an insight into the state-of-the-art. The remaining sections address radio receivers, particularly as two-port devices. Furthermore, the author outlines the fields of applications (with sample calculations and with reference to practical work) and their features and considers also the specialty of high-quality radio receivers. As can be seen from the multitude of terrestrial applications described in Part II, they are typically used for radio surveillance, signal intelligence, modern radio bearing and at the classical radio services. Parts III and IV describe the entire range of parameters that are useful for the characterization of these receivers. The description starts from the physical effect, or the explanation of the individual parameter, and then proceeds to the measuring technique for determining the parameters, highlighting problems, followed by explanatory notes with applicatory relevance. The measuring procedures described are the result of experiences gained in extended laboratory work and practical testing. With the model shown in Part IV, used for the operational evaluation detailing the intrinsic small range of interpretation, the book covers untreated research in the field. The Appendix provides among others valuable information about the dimensioning of receiving systems and the mathematical derivation of non-linear effects and as well as a useful method for converting different level specifications. Key Features: Introduces the basic principles and theories of present-day technology Discusses concepts at system level (aligned to the various types of users) Addresses (fully) digitized radio receivers focusing on the state-of-the-art Close contacts to the industry were utilized to show background information Enables the reader to comprehend and evaluate the characteristic features and the performance of such systems Examines the entire range of parameters that are characteristic of the technology including the physical effect and measuring techniques Includes results of experiences gained in extended laboratory work and practical testing with examples Provides a uniform and systematic approach for ease of understanding e.g. many didactic figures for the visual illustration have been newly created as well as complete real-world examples This book will be an excellent resource to understand the principles of work, for professionals developing and testing radio receivers, for receiver users (e.g. at regulatory agencies, surveillance centers, secret services, classical radio communications services), technicians, engineers and technicians who work with RF-measurement instruments, postgraduate students studying in the field and university lecturers. Chartered radio amateurs and handlers/operators will also find this book insightful. Due to high level of detail, it also serves as a reference. By using the carefully edited alphabetical index with over 1,200 entries, the appropriate explanations can be found quickly in the text.

This revised edition of Communication Systems from GSM to LTE: An Introduction to Mobile Networks and Mobile Broadband Second Edition (Wiley 2010) contains not only a technical description of the different wireless systems available today, but also explains the rationale behind the different mechanisms and implementations; not only the 'how' but also the 'why'. In this way, the advantages and also limitations of each technology become apparent. Offering a solid introduction to major global wireless standards and comparisons of the different wireless technologies and their applications, this edition has been updated to provide the latest directions and activities in 3GPP standardization up to Release 12, and importantly includes a new chapter on Voice over LTE (VoLTE). There are new sections on Building Blocks of a Voice Centric Device, Building Blocks of a Smart Phone, Fast Dormancy, IMS and High-Speed Downlink Packet Access, and Wi-Fi-Protected Setup. Other sections have been considerably updated in places reflecting the current state of the technology. • Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained • Questions at the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material

A comparative introduction to major global wireless standards, technologies and their applications From GSM to LTE-Advanced Pro and 5G: An Introduction to Mobile Networks and Mobile Broadband, 3rd Edition provides technical descriptions of the various wireless technologies currently in use. It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology. This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years. The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation, mobility management, cell reselection and handover procedures, as well as the latest developments in 5G radio and core networks in 3GPP. It now features additional information on the TD-LTE air interface, IPv6 in mobile networks, Network Function Virtualization (NFV) and Narrowband Internet of Things (NB-IOT). Voice-over-LTE (VoLTE) is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process, dedicated bearer setup, header compression, speech codec and bandwidth negotiation, supplementary service configuration and VoLTE emergency calls. In addition, extensive coverage of Voice-over-Wifi and mission critical communication for public safety organizations over LTE has been added. The WLAN chapter now provides coverage of WPA2-Professional with certificates for authentication in large deployments, such as the global Eduroam network and the new WLAN 60 GHz air interface. Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy (BLE) in the chapter

devoted to Bluetooth. Describes the different systems based on the standards, their practical implementation and design assumptions, and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self-study or as course material.

Mit diesem Buch erlangen Sie Grundlagenwissen im Bereich der Computernetzwerke Dieses Buch bietet Ihnen einen kompakten Überblick über das Thema Computernetzwerke. Sein Aufbau orientiert sich an den Schichten der etablierten Referenzmodelle und behandelt für jede Schicht die Geräte und die wichtigsten Protokolle. Zu den Protokollen gehören auch Netzwerktechnologien wie Ethernet, WLAN, Bluetooth usw. und die Übertragungsmedien. Das Ziel des Buches ist es nicht, eine Auflistung von Algorithmen zu schaffen, sondern eine an der Realität orientierte Beschreibung zu liefern, die die wichtigsten Technologien in einem klaren Zusammenhang behandelt. Das Buch soll dem Leser ein fundiertes Verständnis von Computernetzwerken in kompakter Form vermitteln. Das Besondere dabei ist die zweisprachige Darstellung des Inhalts. In zwei Spalten stehen der deutsche und der englische Text nebeneinander, so dass der Leser gleichzeitig seine Sprachkenntnisse und sein Fachvokabular verbessern kann. Das Buch richtet sich vor allem an Studierende der Informatik und an alle am Thema Interessierten. Diese Inhalte vermittelt der Autor dem Leser Christian Baun vermittelt dem Leser in seinem Buch alle wichtigen Grundlagen der Computernetzwerke. Dazu gehören unter anderem:

- Grundlagen der Informations- und Netzwerktechnik
- Grundlagen der Computervernetzung
- Protokolle und Protokollschichten
- Bitübertragungsschicht
- Sicherungsschicht
- Vermittlungsschicht
- Transportschicht
- Anwendungsschicht
- Netzwerkvirtualisierung
- Funktionsweise des OSI-Referenzmodells

Kommandozeilenwerkzeuge Mithilfe dieser Inhalte erhält der Leser einen kompakten Einblick in die Thematik. --- This book presents a compact, yet detailed overview and introduction to computer networks and their components. The book is written in both English and German, arranged in side-by-side columns. This feature helps readers improve and broaden their language skills, and gain familiarity with the specialized vocabulary of computer science and networking at the same time. The book opens with a review of computer science basics, including the building blocks of data, file and storage dimensions, and Unicode. The fundamentals of computer networking are presented, with sections on the dimensions of different types of networks, data transmission, and media access control. Protocols and reference models are explained, followed by chapters on the functional layers of networks: Physical Layer, Data Link Layer, Network Layer, Transport Layer, and Application Layer. Additional topics covered include:

- Computer network topologies
- Bandwidth and latency
- Network virtualization

The book includes a collection of command line tools for network configuration and for analyzing network-related issues. The book concludes with a list of technical terms, and an extensive glossary, both presented in side-by-side columns, in English and German. Requiring little to no technical background, Computer Networks – Computernetze benefits college-level students interested in computer science. It is especially useful for students and working professionals who wish to improve their knowledge of networks and to gain greater comprehension of the technical language of computing in either German or English.

Extensively updated evaluation of current and future network technologies, applications and devices This book follows on from its successful predecessor with an introduction to next generation network technologies, mobile devices, voice and multimedia services and the mobile web 2.0. Giving a sound technical introduction to 3GPP wireless systems, this book explains the decisions taken during standardization of the most popular wireless network standards today, LTE, LTE-Advanced and HSPA+. It discusses how these elements strongly influence each other and how network capabilities, available bandwidth, mobile device capabilities and new application concepts will shape the way we communicate in the future. This Second Edition presents a comprehensive and broad-reaching examination of a fast-moving technology which will be a welcome update for researchers and professionals alike. Key features: Fully updated and expanded to include new sections including VoLTE, the evolution to 4G, mobile Internet access, LTE-Advanced, Wi-Fi security and backhaul for wireless networks Describes the successful commercialization of Web 2.0 services such as Facebook, and the emergence of app stores, tablets and smartphones Examines the evolution of mobile devices and operating systems, including ARM and x86 architecture and their application to voice-optimized and multimedia devices

Many wireless systems like GSM, GPRS, UMTS, Bluetooth, WLAN or WiMAX offer possibilities to keep people connected while on the move. In this flood of technology and claims that one single resource will serve all our needs, this book seeks to enable readers to examine and understand each technology, and how to utilise several different systems for the best results. Communication Systems for the Mobile Information Society not only contains a technical description of the different wireless systems available today, but also explains the thoughts that are behind the different mechanisms and implementations; not only the 'how' but also the 'why' is in focus. Thus the advantages and also limitations of each technology become apparent. Provides readers with a solid introduction to major global wireless standards and compares the different wireless technologies and their applications Describes the different systems based on the standards, their practical implementation and the design assumptions that were made The performance and capacity of each system in practice is analyzed and explained, accompanied with practical tips on how to discover the functionality of different networks by the readers themselves Questions at the end of each chapter and answers on the accompanying website make this book ideal for self study or as course material Illustrated with many realistic examples of how mobile people can stay in touch with other people, the Internet and their corporate intranet This book is an essential resource for telecommunication engineers, professionals and computer science and electrical engineering students who want to get a thorough end-to-end understanding of the different technical concepts of the systems on the market today.

Ethereal is the #2 most popular open source security tool used by system administrators and security professionals. This all new book builds on the success of Syngress' best-selling book Ethereal Packet Sniffing. Wireshark & Ethereal Network Protocol Analyzer Toolkit provides complete information and step-by-step Instructions for analyzing protocols and network traffic on Windows, Unix or Mac OS X networks. First, readers will learn about the types of sniffers available today and see the benefits of using Ethereal. Readers will then learn to install Ethereal in multiple environments including Windows, Unix and Mac OS X as well as building Ethereal from source and will also be guided through Ethereal's graphical user interface. The following sections will teach readers to use command-line options of Ethereal as well as using Tethereal to capture live packets from the wire or to read saved capture files. This section also details how to import and export files between Ethereal and WinDump, Snort, Snoop, Microsoft Network Monitor, and EtherPeek. The book then teaches the reader to master advanced tasks such as creating sub-trees, displaying bitfields in a graphical view, tracking requests and reply packet pairs as well as exclusive coverage of MATE, Ethereal's

brand new configurable upper level analysis engine. The final section to the book teaches readers to enable Ethereal to read new Data sources, program their own protocol dissectors, and to create and customize Ethereal reports. Ethereal is the #2 most popular open source security tool, according to a recent study conducted by insecure.org Syngress' first Ethereal book has consistently been one of the best selling security books for the past 2 years

An autonomous faculty of the TU Wien for only forty years, Electrical Engineering and Information Technology are nevertheless among the most important foundations of technical development since the 19th century. Areas of research are numerous and broad – starting with the “ classics ” like Energy Technologies and Telecommunications, research turned to the fields of System and Automation Technologies, Micro- and Nanoelectronics, and Photonics, all highly complex disciplines that have established themselves as essential to modern society.

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