

Shivani Publications Wireless Communication

Wireless Communication—the fundamental and advanced concepts Wireless Communications Principles of Wireless Communications Wireless Connectivity Wireless Communications Wireless Communication Wireless Communications Recent Advances in Wireless Communications and Networks Cooperative Wireless Communications Fundamentals of Wireless Communication History of Wireless WIRELESS COMMUNICATIONS AND NETWORKS Fundamentals of Wireless Communication Engineering Technologies Introduction to Wireless Communication Circuits Wireless Communication Systems Wireless Communication and Networks Wireless Communications in the 21st Century Introduction to Wireless Communications and Networks Wireless Communication Technology Academic Press Library in Mobile and Wireless Communications Sanjay Kumar Andrea Goldsmith Lars Ahlin Petar Popovski Andreas F. Molisch Sachin S. Sharma T. L. Singal Jia-Chin Lin Yan Zhang David Tse T. K. Sarkar K. Daniel Wong Forouhar Farzaneh Rajeshwar Das Mansoor Shafi Krishnamurthy Raghunandan Blake Katie Wilson

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wireless communication is one of the fastest growing fields in the engineering world today rapid growth in the domain of wireless communication systems services and application has drastically changed the way we live work and communicate wireless communication offers a broad and dynamic technological field which has stimulated incredible excitements and technological advancements over last few decades the expectations from wireless communication technology are increasing every day this is placing enormous challenges to wireless system designers moreover this has created an ever increasing demand for conceptually strong and well versed communication engineers who understand the wireless technology and its future possibilities in recent years significant progress in wireless communication system design has taken place which will continue in future especially for last two decades the research contributions in wireless communication system design have resulted in several new concepts and inventions at remarkable speed a text book is indeed required to offer familiarity with such developments and underlying concepts to be taught in the classroom to future engineers this is one of the motivations for writing this book practically no book can be up to date in this field due to the fast ongoing research and developments the new developments are announced almost every day teaching directly from the research papers in the classroom cannot build the necessary foundation therefore need for a textbook is unavoidable which is integral to learning and is an essential source to build the concept the prime goal of this book is to cooperate in the learning process

this textbook provides the reader with a basic understanding of the design and analysis of wireless and mobile communication systems it deals with the most important techniques models and tools used today in the design of mobile wireless links and gives an introduction to the design of wireless networks topics covered include fundamentals of radio propagation

and antennas transmission schemes including modulation coding and equalising schemes for broadband wireless communications diversity systems wireless data transmission introduction to wireless network design and resource management the fundamentals are illustrated by examples from state of the art technologies such as ofdm wcdma wlans and others the book contains a significant number of worked examples and more than 160 problems with answers it is intended for use in a first graduate course in wireless communications and the reader should be familiar with the fundamentals of probability and communication theory

wireless connectivity an intuitive and fundamental guide wireless connectivity has become an indispensable part a commodity associated with the way we work and play the latest developments the 5g next generation wi fi and internet of things connectivity are the key enablers for widespread digitalization of practically all industries and public sector segments this immense development within the last three decades have been accompanied by a large number of ideas articles patents and even myths this book introduces the most important ideas and concepts in wireless connectivity and discusses how these are interconnected whilst the mathematical content is kept minimal the book does not follow the established linear structure in which one starts from the propagation and channels and then climbs up the protocol layers the structure is rather nonlinear in an attempt to follow the intuition used when one creates a new technology to solve a certain problem the target audience is students in electronics communication and networking wireless engineers that are specialized in one area but want to know how the whole system works without going through all the details and math computer scientists that want to understand the fundamentals of wireless connectivity the requirements and most importantly the limitations engineers in energy systems logistics transport and other vertical sectors that are increasingly reliant on wireless technology

professor andreas f molisch renowned researcher and educator has put together the

comprehensive book wireless communications the second edition which includes a wealth of new material on important topics ensures the role of the text as the key resource for every student researcher and practitioner in the field professor moe win mit usa wireless communications has grown rapidly over the past decade from a niche market into one of the most important fast moving industries fully updated to incorporate the latest research and developments wireless communications second edition provides an authoritative overview of the principles and applications of mobile communication technology the author provides an in depth analysis of current treatment of the area addressing both the traditional elements such as rayleigh fading ber in flat fading channels and equalisation and more recently emerging topics such as multi user detection in cdma systems mimo systems and cognitive radio the dominant wireless standards including cellular cordless and wireless lans are discussed topics featured include wireless propagation channels transceivers and signal processing multiple access and advanced transceiver schemes and standardised wireless systems combines mathematical descriptions with intuitive explanations of the physical facts enabling readers to acquire a deep understanding of the subject includes new chapters on cognitive radio cooperative communications and relaying video coding 3gpp long term evolution and wimax plus significant new sections on multi user mimo 802 11n and information theory companion website featuring supplementary material on dect solutions manual and presentation slides for instructors appendices list of abbreviations and other useful resources

this book focuses on the current hottest issues from the lowest layers to the upper layers of wireless communication networks and provides real time research progress on these issues the authors have made every effort to systematically organize the information on these topics to make it easily accessible to readers of any level this book also maintains the balance between current research results and their theoretical support in this book a variety of novel techniques in wireless communications and networks are investigated the authors attempt to present these topics in detail insightful and reader friendly descriptions are presented to nourish readers of any level from practicing and knowledgeable communication engineers to

beginning or professional researchers all interested readers can easily find noteworthy materials in much greater detail than in previous publications and in the references cited in these chapters

cooperative devices and mechanisms are increasingly important to enhance the performance of wireless communications and networks with their ability to decrease power consumption and packet loss rate and increase system capacity computation and network resilience considering the wide range of applications strategies and benefits associated with

this textbook takes a unified view of the fundamentals of wireless communication and explains cutting edge concepts in a simple and intuitive way an abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers

important new insights into how various components and systems evolved premised on the idea that one cannot know a science without knowing its history history of wireless offers a lively new treatment that introduces previously unacknowledged pioneers and developments setting a new standard for understanding the evolution of this important technology starting with the background magnetism electricity light and maxwell's electromagnetic theory this book offers new insights into the initial theory and experimental exploration of wireless in addition to the well known contributions of maxwell hertz and marconi it examines work done by heaviside tesla and passionate amateurs such as the kentucky melon farmer nathan stubblefield and the unsung hero antonio meucci looking at the story from mathematical physics technical and other perspectives the clearly written text describes the development of wireless within a vivid scientific milieu history of wireless also goes into other key areas including the work of j c bose and j a Fleming german japanese and soviet contributions to physics and applications of electromagnetic oscillations and waves wireless telegraphic and telephonic development and attempts to achieve transatlantic wireless communications wireless telegraphy in south africa in the early twentieth century antenna development in

japan past and present soviet quasi optics at near mm and sub mm wavelengths the evolution of electromagnetic waveguides the history of phased array antennas augmenting the typical marconi centered approach history of wireless fills in the conventionally accepted story with attention to more specific less known discoveries and individuals and challenges traditional assumptions about the origins and growth of wireless this allows for a more comprehensive understanding of how various components and systems evolved written in a clear tone with a broad scientific audience in mind this exciting and thorough treatment is sure to become a classic in the field

a broad introduction to the fundamentals of wireless communication engineering technologies covering both theory and practical topics fundamentals of wireless communication engineering technologies offers a sound survey of the major industry relevant aspects of wireless communication engineering technologies divided into four main sections the book examines rf antennas and propagation wireless access technologies network and service architectures and other topics such as network management and security policies and regulations and facilities infrastructure helpful cross references are placed throughout the text offering additional information where needed the book provides coverage that is closely aligned to the ieee s wireless communication engineering technologies wcet certification program syllabus reflecting the author s direct involvement in the development of the program a special emphasis on wireless cellular and wireless lan systems an excellent foundation for expanding existing knowledge in the wireless field by covering industry relevant aspects of wireless communication information on how common theories are applied in real world wireless systems with a holistic and well organized overview of wireless communications fundamentals of wireless communication engineering technologies is an invaluable resource for anyone interested in taking the wcet exam as well as practicing engineers professors and students seeking to increase their knowledge of wireless communication engineering technologies

this book is focused on special circuits dedicated to the rf level of wireless communications from oscillators to modulation and demodulation and from mixers to rf and power amplifier circuits the topics are presented in a sequential manner

organised into eight chapters this text covers the evolution of wireless communications different generations of wireless communication spectrum allocation to the wireless operators function of itu cellular system architecture types of channels shape selection of the cell cellular system design fundamentals basic multiple access techniques wireless networking enhancing the efficiency of cellular systems

the rapid leaps in communications technology spearheaded by the growth of the wireless industry have meant the 21st century will be a milestone for communications technology this volume collects articles from communications experts

this book provides an intuitive and accessible introduction to the fundamentals of wireless communications and their tremendous impact on nearly every aspect of our lives the author starts with basic information on physics and mathematics and then expands on it helping readers understand fundamental concepts of rf systems and how they are designed covering diverse topics in wireless communication systems including cellular and personal devices satellite and space communication networks telecommunication regulation standardization and safety the book combines theory and practice using problems from industry and includes examples of day to day work in the field it is divided into two parts basic fundamentals and advanced elected topics drawing on the author s extensive training and industry experience in standards public safety and regulations the book includes information on what checks and balances are used by wireless engineers around the globe and address questions concerning safety reliability and long term operation a full suite of classroom information is included

this book edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in

wireless communications and transmission techniques the reader will quickly grasp a new area of research understand the underlying principles of a topic and its application ascertain how a topic relates to other areas and learn of the research issues yet to be resolved reviews important and emerging topics of research in wireless technology in a quick tutorial format presents core principles in wireless transmission theory provides reference content on core principles technologies algorithms and applications includes comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge

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