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Question Paper Code : X10370

B.E/B.Tech. DEGREE EXAMINATIONS APRIL / MAY 2021

Sixth semester

Electronics and Communication Engineering

EC8652- WIRELESS COMMUNICATION

Common to: (Computer and Communication Engineering / Electronics and Telecommunication Engineering)

(Regulations 2017)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART- A (10 x 2 = 20 Marks)

1. State the condition for the occurrence of Flat and Frequency Selective Fading
2. Define Coherence Time and Coherence Bandwidth
3. Write down the procedure involved in the determination of Co-Channel Cell
4. Define frequency reuse
5. Why GMSK is used in Cellular communication
6. How OFDM differ from FDM
7. List out the factors that influence the performance of adaptive equalization algorithms
8. Assume 5 branch diversity is used, where each branch receives an independent Rayleigh fading signal . If the average SNR is 20 dB, determine the probability that the SNR will drop below 10 dB.
9. Compute the capacity of the channel with SNR 10 dB
10. What is the purpose of usage of Beam forming in MIMO system

PART- B (5 x 13 = 65 Marks)

11. a) (i) Derive the received power in dBm for a free space Propagation model (10)
(ii) Determine the Fraunhofer distance for an antenna with maximum dimension of 1 m and operating frequency of 900 MHz. If the antennas have unity gain calculate the path loss (03)

OR

- b) Discuss the impact of time dispersion parameter, Coherence Bandwidth , Doppler Spread and Coherence time on small scale fading (13)
12. a) (i) Discuss your understanding on various multiple access techniques namely FDMA, TDMA and CDMA (06)
(ii) Highlight their advantage, disadvantage and uses in cellular communication (07)

OR

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Technology Road Mapping for Quantum Computing and Engineering Mishra, Brojo Kishore, 2022-03-25 Quantum computing is radically different from the conventional approach of transforming bit strings from one set of zeros and ones to another. With quantum computing, everything changes. The physics used to understand bits of information and the devices that manipulate them are vastly different. Quantum engineering is a revolutionary approach to quantum technology. Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts, engineering technologies, operations, and applications from the basics to future advancements. Covering topics such as machine learning, quantum software, technology, and technology road mapping, this book is an excellent resource for data scientists, engineers, students, and professors of higher education, computer scientists, researchers, and academicians. *Ad Hoc and Wireless Sensor Networks* Nami Susan Kurian, About Book The inspiration behind this book is when I felt that there is a need of a simplified book on Ad Hoc and Sensor Networks that can help the students to understand the concepts in an easy manner. This book is written as per the latest Anna University syllabi Regulation 2017. This book contains five units which covers the whole syllabus. Unit 1 Deals with the fundamentals of Ad hoc network and Sensor Network. It also describes the different routing protocols for Ad Hoc Wireless Networks. Unit 2 Provides an in depth knowledge on sensor network architecture and design issues. Unit 3 Understands the MAC layer and transport layer issues. It also describes the protocols used in MAC layer and transport layer. Unit 4 Illustrates the security issues possible in Ad hoc and Sensor networks. Unit 5 Provides an exposure to mote programming platforms and tools. At the end of every unit, possible short answer and long answer questions are also given. This book will be beneficial for the Engineering students as it helps in easy understanding of the concepts in the best and easier way. **Internet of Things** Manish Soni, 2024-11-13 Welcome to Internet of Things. The Internet of Things (IoT) is more than just a buzzword; it's a transformative force that's reshaping the way we interact with the world around us. From smart homes that anticipate our needs to industrial processes optimized for efficiency, the IoT has woven itself into the fabric of our daily lives and industries, promising a future of unprecedented connectivity and convenience. This book, *Internet of Things*, is your comprehensive guide to understanding, developing, and thriving in this exciting and dynamic field. Whether you're a curious newcomer, a seasoned developer, or a business leader seeking to harness the potential of IoT, this book has something to offer you. The journey through the pages of this book will take you from the fundamentals of IoT, exploring its history and core concepts, to diving deep into the technologies and protocols that power it. You'll discover the myriad of applications where IoT is making a difference, from smart homes and healthcare to agriculture and smart cities. We'll explore the critical issues surrounding IoT, such as data security and privacy, and equip you with the knowledge to navigate these challenges effectively. Through hands-on examples and practical advice, you'll gain the skills needed to develop IoT solutions, whether you're building a simple home automation project or a complex industrial system.

But this book isn't just about the nuts and bolts of IoT it's also about the bigger picture. We'll examine the ethical and social implications of a world where everything is connected, discussing the responsible development and deployment of IoT technologies. As you delve into the Chapters that follow, you'll find a wealth of information, insights, and inspiration to fuel your IoT journey. This book is a testament to the incredible possibilities that emerge when our physical world meets the digital realm, and we hope it serves as a valuable resource on your quest to master the Internet of Things. The IoT landscape is evolving rapidly, and it's an exciting time to be a part of this technological revolution. So let's embark on this journey together and explore the limitless potential of the Internet of Things.

Neural Networks for Natural Language Processing S., Sumathi, M., Janani, 2019-11-29

Information in today's advancing world is rapidly expanding and becoming widely available. This eruption of data has made handling it a daunting and time-consuming task. Natural language processing (NLP) is a method that applies linguistics and algorithms to large amounts of this data to make it more valuable. NLP improves the interaction between humans and computers, yet there remains a lack of research that focuses on the practical implementations of this trending approach.

Neural Networks for Natural Language Processing is a collection of innovative research on the methods and applications of linguistic information processing and its computational properties. This publication will support readers with performing sentence classification and language generation using neural networks, apply deep learning models to solve machine translation and conversation problems, and apply deep structured semantic models on information retrieval and natural language applications. While highlighting topics including deep learning, query entity recognition, and information retrieval, this book is ideally designed for research and development professionals, IT specialists, industrialists, technology developers, data analysts, data scientists, academics, researchers, and students seeking current research on the fundamental concepts and techniques of natural language processing.

Smart Spaces and Next Generation Wired/Wireless Networking Sergey Balandin, Roman Dunaytsev, Yevgeni Koucheryavy, 2010-08-26

This book constitutes the refereed proceedings of the 10th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking (NEW2AN 2010) held in conjunction with the Third Conference on Smart Spaces (ruSMART 2009) in St. Petersburg, Russia, in August 2010. The 27 revised NEW2AN full papers are organized in topical sections on performance evaluation, performance modeling, delay/disruption tolerant networking, and overlay systems; integrated wireless networks; resource management; and multimedia communications. The 14 revised ruSMART full papers are about smart spaces, use cases, smart M3 platform, and smart spaces solutions.

Harnessing AI and Digital Twin Technologies in Businesses

Ponnusamy, Sivaram, Assaf, Mansour, Antari, Jilali, Singh, Satyanand, Kalyanaraman, Swaminathan, 2024-07-26

The intersection of artificial intelligence (AI) and digital twin technology presents a problem and an unparalleled opportunity for transformation. Businesses grapple with the need for operational excellence, innovation, and a competitive edge while navigating the intricate web of data analytics, decision making, and real-time monitoring. In response to these challenges,

Harnessing AI and Digital Twin Technologies in Businesses emerges as an example of insight and guidance offering a comprehensive exploration of the complementary connection between AI and digital twin technology In a world where the convergence of these powerful tools transforms business intelligence enabling initiative taking decision making and dynamic simulations This book serves as a solution for decision makers technologists and researchers seeking to not only understand but harness the potential of AI powered digital twins to enhance productivity creativity and judgment in their operations

MOBILE COMPUTING Dr.J.Martin Sahayaraj,Dr. N.Dhasarathan,Dr. N.S.S Ramachandra Murthy,Dr. S.R.Boselin Prabhu ,Dr. J. Suresh,2019-09-12 Unit 1 Covers Mobile Computing Mobile Computing wireless Networking Mobile Computing Applications Characteristics of Mobile computing Structure of Mobile Computing Application MAC Protocols Wireless MAC Issues Fixed Assignment Schemes Random Assignment Schemes Reservation Based Schemes Unit 2 Covers Overview of Mobile IP Features of Mobile IP Key Mechanism in Mobile IP route Optimization Overview of TCP IP Architecture of TCP IP Adaptation of TCP Window Improvement in TCP Performance Unit 3 Covers Global System for Mobile Communication GSM General Packet Radio Service GPRS Universal Mobile Telecommunication System UMTS Unit 4 Covers Ad Hoc Basic Concepts Characteristics Applications Design Issues Routing Essential of Traditional Routing Protocols Popular Routing Protocols Vehicular Ad Hoc networks VANET MANET Vs VANET Security Unit 5 Covers Mobile Device Operating Systems Special Constrains Requirements Commercial Mobile Operating Systems Software Development Kit IOS Android BlackBerry Windows Phone M Commerce Structure Pros Cons Mobile Payment System Security Issues **The Routledge Companion to Mobile Media** Gerard Goggin,Larissa Hjorth,2014-05-09 The last decade has witnessed the rise of the cell phone from a mode of communication to an indispensable multimedia device and this phenomenon has led to the burgeoning of mobile communication studies in media cultural studies and communication departments across the academy The Routledge Companion to Mobile Media seeks to be the definitive publication for scholars and students interested in comprehending all the various aspects of mobile media This collection which gathers together original articles by a global roster of contributors from a variety of disciplines sets out to contextualize the increasingly convergent areas surrounding social geosocial and mobile media discourses Features include comprehensive and interdisciplinary models and approaches for analyzing mobile media wide ranging case studies that draw from this truly global field including China Africa Southeast Asia the Middle East and Latin America as well as Europe the UK and the US a consideration of mobile media as part of broader media ecologies and histories chapters setting out the economic and policy underpinnings of mobile media explorations of the artistic and creative dimensions of mobile media studies of emerging issues such as ecological sustainability up to date overviews on social and locative media by pioneers in the field Drawn from a range of theoretical artistic and cultural approaches The Routledge Companion to Mobile Media will serve as a crucial reference text to inform and orient those interested in this quickly expanding and far reaching field *Ad Hoc Networks* Shiwen Mao,Scott Midkiff,Hua Zhu,2010-01-23 Ad hoc

networks refer to the wireless networking paradigm that covers a variety of network forms for specific purposes such as mobile ad hoc networks sensor networks vehicular networks underwater networks underground networks personal area networks and home networks The various forms of ad hoc networks promise a broad scope of applications in civilian commercial and military areas which have led to significant new research problems and challenges and have attracted great efforts from academia industry and government This unique networking paradigm necessitates re-examination of many established wireless networking concepts and protocols and calls for developing new fundamental understanding of problems such as interference mobility connectivity capacity and security among others While it is essential to advance theoretical research on fundamentals and practical research on efficient algorithms and protocols it is also critical to develop useful applications experimental prototypes and real world deployments to achieve a practical impact on our society for the success of this networking paradigm The annual International Conference on Ad Hoc Networks AdHocNets is a new event that aims at providing a forum to bring together researchers from academia as well as practitioners from industry and government to meet and exchange ideas and recent research work on all aspects of ad hoc networks As the first edition of this event AdHocNets 2009 was successfully held in Niagara Falls Ontario Canada during September 22-25 2009

Distributed Computing in Sensor Systems Rajmohan Rajaraman, Thomas Moscibroda, Adam Dunkels, Anna Scaglione, 2010-06-16 The book constitutes the refereed proceedings of the 6th International Conference on Distributed Computing in Sensor Systems DCOSS 2010 held in Santa Barbara CA USA in June 2010 The 28 revised full papers presented were carefully reviewed and selected from 76 submissions The research contributions in this proceedings span important aspects of sensor systems including energy management communication coverage and tracking time synchronization and scheduling key establishment and authentication compression medium access control code update and mobility

Reliability and Statistics in Transportation and Communication Igor Kabashkin, Irina Yatskiv, Olegas Prentkovskis, 2021-02-06 This book reports on cutting edge theories and methods for analyzing complex systems such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication RelStat which took place remotely from Riga Latvia on October 14-17 2020 It spans a broad spectrum of topics from mathematical models and design methodologies to software engineering data security and financial issues as well as practical problems in technical systems such as transportation and telecommunications and in engineering education

Self-Organizing Systems Karin Anna Hummel, James P. G. Sterbenz, 2008-11-30 This book constitutes the refereed proceedings of the Third International Workshop on Self-Organizing Systems IWSOS 2008 held in Vienna Austria December 10-12 2008 The 20 revised full papers and 13 revised short papers presented were carefully selected from the 70 full and 24 short paper submissions from authors from 33 different countries

The papers are organized in topical sections on peer to peer systems overlay networks as well as resource and service management Indian Engineering Patrick Doyle,1908 **Information Management** Dr. V. Ravi Kumar,Dr. A. Manikandan ,2021-03-10 Buy E Book of Information Management Book For MBA 1st Semester of Anna University Chennai *Resources in Education* ,1990 *The New York Times Index* ,1999 **Translating Cultures** David Katan, Mustapha Taibi,2021-06-17 This bestselling coursebook introduces current understanding about culture and provides a model for teaching culture to translators interpreters and other mediators The approach is interdisciplinary with theory from Translation Studies and beyond while authentic texts and translations illustrate intercultural issues and strategies adopted to overcome them This new third edition has been thoroughly revised to update scholarship and examples and now includes new languages such as Arabic Chinese German Japanese Russian and Spanish and examples from interpreting settings This edition revisits the chapters based on recent developments in scholarship in intercultural communication cultural mediation translation and interpreting It aims to achieve a more balanced representation of written and spoken communication by giving more attention to interpreting than the previous editions especially in interactional settings Enriched with discussion of key recent scholarly contributions each practical example has been revisited and or updated Complemented with online resources which may be used by both teachers and students this is the ideal resource for all students of translation and interpreting as well as any reader interested in communication across cultural divides Additional resources are available on the Routledge Translation Studies Portal <http://routledgetranslationstudiesportal.com> **Book Bulletin of the Chicago Public Library** Chicago Public Library,1915 *The Volume Library* ,1911 The Electrical Review ,1919

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