

Jochen Schiller Mobile Communications

2nd Edition

Questions \u0026 Tasks 7921ae5126 Agent advertisement 7921ae5126 Presentation Paused 7921ae5126 GSM – the most successful 2G system: Overview 7921ae5126 Mobile and wireless services – Always Best Connected 7921ae5126 Questions \u0026 Tasks 7921ae5126 IEEE 802.11 HR/DSSS – PHY frame formats (was 802.11b) 7921ae5126 IEEE 802.11 HT – PHY frame formats (was 802.11n) – marketed as WiFi 4 7921ae5126 Mobile devices 7921ae5126 Subtitles and closed captions 7921ae5126 802.11 - Layers and functions 7921ae5126 Comparison: infrastructure vs. ad-hoc vs. mesh networks 7921ae5126 Change of foreign agent 7921ae5126 Mobile Communications, C02-Wireless_Transmission-1 - Mobile Communications, C02-Wireless_Transmission-1 1 hour, 8 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, ... 7921ae5126 Influence of mobile communication to the layer model 7921ae5126 Hierarchical Modulation 7921ae5126 Effects of mobility 7921ae5126 Polarization-division multiplexing (PDM) 7921ae5126 Problem of CSMA/CD in wireless communication 7921ae5126 Motivation - hidden and exposed terminals 7921ae5126 Questions \u0026 Tasks 7921ae5126 Mobile Communications - an Overview 7921ae5126 Location dependent services 7921ae5126 Questions \u0026 Tasks 7921ae5126 Questions \u0026 Tasks 7921ae5126 Fourier representation of periodic signals 7921ae5126 Mobile Communications, C01-Introduction-1 - Mobile Communications, C01-Introduction-1 7 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, - an ... 7921ae5126 Hierarchical Modulation 7921ae5126 Tele Services I 7921ae5126 General 7921ae5126 Operating channels for 802.11a / US U-NII (examples) 7921ae5126 Mobile Communications, C04-Wireless_Telecommunication_Systems-2 - Mobile Communications, C04-Wireless_Telecommunication_Systems-2 29 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - GSM – the most successful 2G ... 7921ae5126 802.11 - MAC Inter Frame Space 7921ae5126 Questions \u0026 Tasks 7921ae5126 Some current numbers (2019/2020) 7921ae5126 Questions \u0026 Tasks 7921ae5126 802.11 - CSMA/CA access method II 7921ae5126 Mobile IP registration request 7921ae5126 Operating channels of 802.11a in Europe (examples) 7921ae5126 History of wireless communication IV 7921ae5126 Spherical Videos 7921ae5126 Modulation 7921ae5126 Präsentation unterbrochen 7921ae5126 Wireless Transmission Q\u0026A 2 7921ae5126 Questions \u0026 Tasks 7921ae5126 Signals II 7921ae5126 Mobile Communications, C02-Wireless_Transmission-QandA-1 - Mobile Communications, C02-Wireless_Transmission-QandA-1 1 hour, 16 minutes - Mobile Communications, Q\u0026A session from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - Wireless Transmission ... 7921ae5126 Questions \u0026 Tasks 7921ae5126 Antennas: diversity 7921ae5126 Introduction 7921ae5126 Questions \u0026 Tasks 7921ae5126 Encapsulation 7921ae5126 IEEE standard 802.11 7921ae5126 History of wireless communication II 7921ae5126 802.11 - CSMA/CA access method I 7921ae5126 IEEE 802.11 HT – PHY frame formats (was 802.11n) 7921ae5126 Motivation 7921ae5126 TDD/TDMA - general scheme,

example DECT 7921ae5126 IEEE 802.11 HR/DSSS – PHY frame formats (was 802.11b) 7921ae5126 802.11 - MAC Inter Frame Space 7921ae5126 History of wireless communication V 7921ae5126 Questions \u0026 Tasks 7921ae5126 Frequencies and regulations 7921ae5126 History of wireless communication I 7921ae5126 802.11 – Classical architecture of an infrastructure network 7921ae5126 802.11 - CSMA/CA access method I 7921ae5126 Design goals for wireless LANs 7921ae5126 Questions \u0026 Tasks 7921ae5126 TCP Improvements II 7921ae5126 How to access the medium in 802.11 7921ae5126 IEEE 802.11 OFDM – PHY frame format (was 802.11a) 7921ae5126 Why Mobile Communications? 7921ae5126 Multipath propagation 7921ae5126 TCP Improvements I 7921ae5126 Mobile Communications, C02-Wireless_Transmission-2 - Mobile Communications, C02-Wireless_Transmission-2 19 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - Signal propagation ranges ... 7921ae5126 Code-division multiplexing (CDM) 7921ae5126 IEEE 802.11 OFDM – PHY frame format (was 802.11a) 7921ae5126 Questions \u0026 Tasks 7921ae5126 Questions \u0026 Tasks 7921ae5126 Präsentation unterbrochen 7921ae5126 Good bye SMS!? 7921ae5126 Multipath propagation 7921ae5126 Overview 7921ae5126 Very High Throughput (VHT) PHY – uses OFDM (was 802.11ac) 7921ae5126 Mobile Communications Chapter 2: Wireless Transmission 7921ae5126 Präsentation unterbrochen 7921ae5126 Präsentation unterbrochen 7921ae5126 MIMO 7921ae5126 World largest mobile network operators 2019 7921ae5126 Questions \u0026 Tasks 7921ae5126 Advanced Phase Shift Keying 7921ae5126 DSSS PHY packet format (legacy) 7921ae5126 Tele Services II 7921ae5126 Simple reference model used here 7921ae5126 Digital modulation 7921ae5126 Questions \u0026 Tasks 7921ae5126 Search filters 7921ae5126 Example of MSK 7921ae5126 Frequency planning I 7921ae5126 Questions \u0026 Tasks 7921ae5126 Questions \u0026 Tasks 7921ae5126 Problem of CSMA/CD in wireless communication 7921ae5126 Frequencies for communication 7921ae5126 Cell breathing 7921ae5126 Mobile Communications, C05_Wireless_LANs-2 - Mobile Communications, C05_Wireless_LANs-2 26 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - 802.11 - Physical layer ... 7921ae5126 Mobile Communication Technology according to IEEE (examples) 7921ae5126 Antennas: simple dipoles 7921ae5126 Questions \u0026 Tasks 7921ae5126 Optional: Generic Routing Encapsulation 7921ae5126 GSM: Mobile Services 7921ae5126 Mobile Communications Chapter 1: Introduction 7921ae5126 IEEE 802.11 ERP – PHY frame formats (was 802.11g) 7921ae5126 802.11 - CSMA/CA access method II 7921ae5126 OFDM in IEEE 802.11 7921ae5126 IEEE 802.11 HR/DSSS – PHY frame formats (was 802.11b) 7921ae5126 Mobile Communications, C01-Introduction-3 - Mobile Communications, C01-Introduction-3 10 minutes, 38 seconds - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - Early history of wireless ... 7921ae5126 Software Defined Radio 7921ae5126 Disadvantages of GSM 7921ae5126 Questions \u0026 Tasks 7921ae5126 Signals II 7921ae5126 Characteristics of wireless LANs 7921ae5126 Frequencies for communication 7921ae5126 Questions \u0026 Tasks 7921ae5126 Mobile Communications, C02-Wireless_Transmission-6 - Mobile Communications, C02-Wireless_Transmission-6 17 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - Cell structure 05:20 ... 7921ae5126 FDD/FDMA - general scheme, example GSM 7921ae5126 Frequency planning II 7921ae5126 IEEE 802.11 HT – PHY frame formats (was 802.11n) 7921ae5126 Questions \u0026 Tasks 7921ae5126 Effects of spreading and interference 7921ae5126 Mobile IP registration reply 7921ae5126 Channel selection (non-overlapping) 7921ae5126

IEEE 802.11 HT - PHY frame formats (was 802.11n) 7921ae5126 Wireless networks in comparison to fixed networks 7921ae5126 MIMO 7921ae5126 Applications I 7921ae5126 Questions \u0026 Tasks 7921ae5126 The next step: Wireless Sensor Networks (WSN) 7921ae5126 Cognitive Radio 7921ae5126 History of wireless communication III 7921ae5126 Playback 7921ae5126 802.11 - MAC layer architecture 7921ae5126 Mobile Communications, C01-Introduction-2 - Mobile Communications, C01-Introduction-2 39 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, ... 7921ae5126 Optimization of packet forwarding 7921ae5126 Digital modulation 7921ae5126 Registration 7921ae5126 Präsentation unterbrochen 7921ae5126 Real world examples 7921ae5126 Great flexibility with LTE 7921ae5126 Seamless Overlay Networks - (still) the global goal 7921ae5126 Signal propagation ranges 7921ae5126 Präsentation unterbrochen 7921ae5126 Encapsulation - needed for the tunnel HA-CoA 7921ae5126 Mobile communication 7921ae5126 C01 Introduction 1 - C01 Introduction 1 7 minutes - Mobile Communications, - Introduction - 1/5 This video is just an introduction - for all videos (more than 150), full quality and ... 7921ae5126 Comparison of different approaches for a "mobile" TCP 7921ae5126 802.11 - Architecture of an ad-hoc network 7921ae5126 Supplementary services 7921ae5126 Motivation - near and far terminals 7921ae5126 IEEE standard 802.11 7921ae5126 Antennas: isotropic radiator 7921ae5126 Signal propagation 7921ae5126 Mobile Communications, C01-Introduction-5 - Mobile Communications, C01-Introduction-5 8 minutes, 22 seconds - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - Areas of research in mobile ... 7921ae5126 History of wireless communication VI 7921ae5126 IEEE 802.11 VHT - High-speed for WLANs at 5 GHz - marketed as WiFi 5 7921ae5126 Antennas: directed and sectorized 7921ae5126 Applications II 7921ae5126 Bearer Services 7921ae5126 6LoWPAN 7921ae5126 Mobile Communications, C04-Wireless_Telecommunication_Systems-1 - Mobile Communications, C04-Wireless_Telecommunication_Systems-1 32 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, ... 7921ae5126 Questions \u0026 Tasks 7921ae5126 Some press news... 7921ae5126 Access methods SDMA/FDMA/TDMA 7921ae5126 And now... the Internet of Things! 7921ae5126 Questions \u0026 Tasks 7921ae5126 Mobile phone subscribers worldwide (we were all wrong) 7921ae5126 Cell structure 7921ae5126 Mobile Communication by Jochen Schiller - Mobile Communication by Jochen Schiller 4 minutes, 23 seconds - This is a reference **book**, for **Mobile**, Computing which is a 7th semester subject in IPU, CSE stream! You can get the PDF of this ... 7921ae5126 6LoWPAN 7921ae5126 Mobile Communications, C03_Medium_Access-1 - Mobile Communications, C03_Medium_Access-1 43 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, ... 7921ae5126 Operating channels of 802.11a in Europe (examples) 7921ae5126 Questions \u0026 Tasks 7921ae5126 Advanced Phase Shift Keying 7921ae5126 Mobile Communications, C05_Wireless_LANs-QandA-1 - Mobile Communications, C05_Wireless_LANs-QandA-1 1 hour, 25 minutes - Mobile Communications, Q\u0026A session from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, ... 7921ae5126 Mobile Communication Technology according to IEEE (examples) 7921ae5126 Very High Throughput (VHT) PHY - uses OFDM (was 802.11ac) 7921ae5126 Presentation Paused 7921ae5126 Mobile Communications, C06-Internet_Protocols_QandA-2 - Mobile Communications, C06-Internet_Protocols_QandA-2 28 minutes - Mobile Communications, Q\u0026A session from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, ... 7921ae5126 Example

frequencies for mobile communication 7921ae5126 Questions \u0026 Tasks 7921ae5126 Overview of the lecture 7921ae5126 Early history of wireless communication 7921ae5126 Comparison: infrastructure vs. ad-hoc vs. mesh networks 7921ae5126 Channel selection (non-overlapping) 7921ae5126 Reverse tunneling (RFC 3024, was: 2344) 7921ae5126 Development of mobile telecommunication systems 7921ae5126 Example: Laser 7921ae5126 Mobile Communications, C05_Wireless_LANs-1 - Mobile Communications, C05_Wireless_LANs-1 26 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - **Mobile Communications**, ... 7921ae5126 Signals I 7921ae5126 OFDMA - Orthogonal frequency-division multiple access 7921ae5126 Typical application: road traffic 7921ae5126 The Transport Layer 7921ae5126 802.11 - Competing stations - simple version 7921ae5126 Performance characteristics of GSM (wrt. analog sys.) 7921ae5126 Presentation Paused 7921ae5126 Effects of spreading and interference 7921ae5126 Operating channels of 802.11a in Europe (examples) 7921ae5126 Mobile Communications Chapter 3: Medium Access 7921ae5126 IEEE 802.11 HT - PHY frame formats (was 802.11n) 7921ae5126 Quadrature Amplitude Modulation 7921ae5126 802.11 - Physical layer (historical - not in standard any longer) 7921ae5126 Questions \u0026 Tasks 7921ae5126 Questions \u0026 Tasks 7921ae5126 Questions \u0026 Tasks 7921ae5126 How does it work? 7921ae5126 Real technical systems are always bandwidth-limited 7921ae5126 Mobile Communications, C06_Internet_Protocols-2 - Mobile Communications, C06_Internet_Protocols-2 20 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - Network integration 02:17 ... 7921ae5126 Problems with mobile IP 7921ae5126 Mobile Communications 7921ae5126 Mobile Communications Chapter 4: Wireless Telecommunication Systems 7921ae5126 Real technical systems are always bandwidth-limited 7921ae5126 IEEE 802.11 VHT - High-speed for WLANs at 5 GHz - marketed as WiFi 5 7921ae5126 Keyboard shortcuts 7921ae5126 Mobile Communications Chapter 5: Wireless LANs 7921ae5126 Questions \u0026 Tasks 7921ae5126 Mobile Communications, C02-Wireless_Transmission-QandA-2 - Mobile Communications, C02-Wireless_Transmission-QandA-2 1 hour, 15 minutes - Mobile Communications, lecture from 2020, MSc Computer Science, Freie Universität Berlin 00:00 - Wireless Transmission Q\u0026A 2, ... 7921ae5126 Wireless Transmission Q\u0026A 1 7921ae5126 Presentation Resumed 7921ae5126 Effects of device portability 7921ae5126 Network integration 7921ae5126 Questions \u0026 Tasks 7921ae5126 Multiplexing 7921ae5126 Mobile Communications Chapter 5: Wireless LANs 7921ae5126 Fragmentation 7921ae5126 Questions \u0026 Tasks 7921ae5126 802.11 - Architecture of a mesh network 7921ae5126 Mobile IP with reverse tunneling 7921ae5126 Computers for the next decades? 7921ae5126 802.11 - Competing stations - simple version 7921ae5126 Mobile Communications Chapter 6: Internet Protocols 7921ae5126 Questions \u0026 Tasks 7921ae5126 Areas of research in mobile and wireless communication 7921ae5126 Questions \u0026 Tasks 7921ae5126 Presentation Paused 7921ae5126

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