



Design Of Highspeed Communicativ38

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Data Science and Communication João Manuel R. S. Tavares, Joel J. P. C. Rodrigues, Debajyoti Misra, Debasmita Bhattacharjee, 2024-01-02 The book presents selected papers from the International Conference on Data Science and Communication ICTDsC 2023 organized by the Department of Electronics and Communication Engineering and Department of Engineering Science and Humanities DESH Siliguri Institute of Technology India during 23-24 March 2023 in Siliguri India. The book covers state-of-the-art research insights on artificial intelligence, machine learning, big data, data analytics, cyber security, and forensic network and mobile security, advanced computing, cloud computing, quantum computing, electronics system, Internet of Things, robotics, and automations, blockchain, and software technology and digital technologies for future.

Next Generation Wireless Terahertz Communication Networks Saim Ghafoor, Mubashir Husain Rehmani, Alan Davy, 2021-08-10 The rapid growth of the data traffic demands new ways to achieve high-speed wireless links. The backbone networks, data centers, mission-critical applications, as well as end-users sitting in office or home, all require ultra-high throughput and ultra-low latency wireless links. Sophisticated technological advancement and huge bandwidth are required to reduce the latency. Terahertz band in this regard has a huge potential to provide these high-capacity links where a user can download the file in a few seconds. To realize the high-capacity wireless links for future applications, in this book, different aspects of the Terahertz band wireless communication network are presented. This book highlights the Terahertz channel characteristics and modeling, antenna design, and beamforming, device characterization, applications, and protocols. It also provides state-of-the-art knowledge on different communication aspects of Terahertz communication and techniques to realize the true potential of the Terahertz band for wireless communication.

Industrial Communication Systems Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The *Industrial Electronics Handbook*, Second Edition, *Industrial Communications Systems* combines traditional and newer, more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems such as neural networks, fuzzy systems, and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the *IEEE Transactions on Industrial Electronics*, Journal, one of the largest and most respected publications in the field. Modern communication systems in factories use many different and increasingly sophisticated systems to send and receive information. *Industrial Communication Systems* spans the full gamut of concepts that engineers require to maintain a well-designed, reliable communications system that can ensure successful operation of any production process. Delving into the subject, this volume covers technical principles.

Application specific areas Technologies Internet programming Outlook including trends and expected challenges Other volumes in the set Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems Design and Implementation of Visible Light Communication Circuit for Wireless Data Transmission and Radio Frequency Argumentation Dr. Anusiuba Overcomer Ifeanyi Alex, Dr. Ibrahim M. M. El Emary, Dr. Eissa Mohammed Ali Qhal, 2022-12-23 The societal reliance upon wireless systems continues to rise due to mobile data interchange A closer look at the current allocation of 38 GHz 5G Cellular is desperately pointing to and suggesting the crowding of the frequency spectrum Therefore this study explores visible light communication as one of the emerging technologies to help meet up with these challenges The Visible Light Communication VLC refers to the communication technology which utilizes the visible light source as a signal transmitter the air as a transmission medium and the appropriate photodiode as a signal receiving component This study appraises the extant literature on Solid State Lighting SSL with emphasis on Light Emitting Diodes LEDs The study highlights the weaknesses of the existing system the advantages and the significance of the new system using prototype methodology The study focused on the design and implementation of Visible Light Communication VLC circuit for wireless data transmission by designing an analog circuit to integrate with a computer or mobile phone and then sending some form of data using visible light LEDs from a transmitter and decoding it with a receiver The design adopted Beagle Bone Black BBB as development platform and the circuit was tested with Proteus 8 Professional and data sent reliably and accurately over a short distance at a fair speed which ensures that the initial goals for the functionality of this new system which includes being able to send audio text or pictures over a distance of approximately 10 meter at a data rate of at least 10 Mbps was achieved The study shows that visible light communication has the potential to provide high speed data communication with improved energy efficiency and communication security privacy due to its unique characteristics and advantages Also Visible Light Communication can complement the RF based mobile communication systems in designing high capacity mobile data networks and can be incorporated in the next generation 5G network The study therefore recommends error control mechanism and Dimming Support to be integrated in the subsequent studies **Future Communication, Information and Computer Science** Dawei Zheng, 2015-02-05 The 2014 International Conference on Future Communication Information and Computer Science FCICS 2014 was held May 22 23 2014 in Beijing China The objective of FCICS 2014 was to provide a platform for researchers engineers and academics as well as industrial professionals from all over the world to present their research results and development activities in Computer Network and Information Technology and Communication Engineering The Industrial Communication Technology Handbook Richard Zurawski, 2005-02-23 The Industrial Communication Technology Handbook focuses on current and newly emerging communication technologies and systems that are evolving in response to the needs of industry and the demands of industry led consortia and organizations Organized into two parts the text first summarizes the basics of data communications and IP

networks then presents a comprehensive overview of the field of industrial communications This book extensively covers the areas of fieldbus technology industrial Ethernet and real time extensions wireless and mobile technologies in industrial applications the linking of the factory floor with the Internet and wireless fieldbuses network security and safety automotive applications automation and energy system applications and more The Handbook presents material in the form of tutorials surveys and technology overviews combining fundamentals and advanced issues with articles grouped into sections for a cohesive and comprehensive presentation The text contains 42 contributed articles by experts from industry and industrial research establishments at the forefront of development and some of the most renowned academic institutions worldwide It analyzes content from an industrial perspective illustrating actual implementations and successful technology deployments

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