



Wireless Infrared Communications Wireless Infrared Communications

Roberto Ramirez-Iniguez, Sevia M. Idrus, Ziran Sun



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Low-Power Wireless Infrared Communications Rob Otte, Leo P. de Jong, Arthur H.M. van Roermund, 2013-04-17

Today wireless infrared transmission has entered our homes offices industry and health care with applications in the field of remote control telemetry and local communication This book is about the underlying technology As it is an outgrowth of my Ph D thesis the emphasis is on fundamental aspects rather than industrial aspects like the standardization effort by the IrDA 7 I guess that this is not a drawback as eventually the laws of physics apply to all of us As the applied radiation is not necessarily in the infrared throughout the book we usually prefer the term optical transmission As most equipment is battery powered the emphasis is on power optimization of the optical transmission system System parameters as well as environmental parameters that determine the eventual transmission quality are identified to facilitate well reasoned system design Many design rules based on calculations measurements and simulations are presented to help the designer push the performance close to the limits set by nature and the available technology The first chapters introduce the subject and the present the scope of the book Then the basic transmission link is introduced in chapter 3 and strategies to optimize its signal to noise ratio are discussed Lighting flicker is identified as a possible source of interference Then receiver noise and bandwidth are discussed in chapter 4 mainly based on the material presented in 66 67 69

Wireless Infrared Communications John R. Barry, 2012-12-06 The demand for wireless access to network services is growing in virtually all communications and computing applications Once accustomed to unteathered operation users resent being tied to a desk or a fixed location but will endure it when there is some substantial benefit such as higher resolution or bandwidth Recent technological advances however such as the scaling of VLSI the development of low power circuit design techniques and architectures increasing battery energy capacity and advanced displays are rapidly improving the capabilities of wireless devices Many of the technological advances contributing to this revolution pertain to the wireless medium itself There are two viable media radio and optical In radio spread spectrum techniques allow different users and services to coexist in the same bandwidth and new microwave frequencies with plentiful bandwidth become viable as the speed of the supporting low cost electronics increases Radio has the advantage of being available ubiquitously indoors and outdoors with the possibility of a seamless system infrastructure that allows users to move between the two There are unanswered but likely to be benign biological effects of microwave radiation at higher power densities Optical communications is enhanced by advances in photonic devices such as semiconductor lasers and detectors Optical is primarily an indoor technology where it need not compete with sunlight and offers advantages such as the immediate availability of a broad bandwidth without the need for regulatory approval

High-speed Wireless Infrared Communications Emmanuel Baleke Zyambo, 2003

Optical Wireless Communications Roberto Ramirez-Iniguez, Sevia M. Idrus, Ziran Sun, 2008-04-03 Over the last three decades interest in Infrared IR technology as a medium to convey information has grown considerably This is reflected by the increasing number

of devices such as laptops PDAs and mobile phones that incorporate optical wireless transceivers and also by the increasing number of optical wireless links available for indoor and *Low-Power Wireless Infrared Communications* Rob Otte, Leo P. De Jong, Arthur Van Roermund, 2014-01-15 **Indoor Wireless Infrared Communications** Sotiris Sotiropoulos, University of Manchester. School of Engineering, 1997 *Edge Position Modulation for Wireless Infrared Communications* Thomas Lüftner, 2005 *Modeling Wireless Infrared Communications for Network Simulation* Sarah Marie Carroll, 2004 Multipath Channels in Wireless Infrared Communications: Modeling, Angle Diversity and Estimation Jeffrey Brian Carruthers, 1997 An Imaging Diversity Receiver for High Speed Wireless Infrared Communications Amy Gayle Weisbin, 1997 **Coded Modulation and Equalization for Wireless Infrared Communications** Hyuncheol Park, 1997 **Imaging Diversity Receiver Back-end for Wireless Infrared Communications** Kian Teik Beh, 1998 **Wireless Infrared Communication Links Using Multi-beam Transmitters and Image Receivers** Andrew Pengfei Tang, 1996 **High-speed Wireless Infrared Communication Links** Gene Wesley Marsh, 1995 *Power-efficient Coded Modulation for Wireless Infrared Communication* David Chien Min Lee, 1998 **Optical Wireless Communications** Z. Ghassemloooy, W. Popoola, S. Rajbhandari, 2019-04-30 The 2nd Edition of Optical Wireless Communications System and Channel Modelling with MATLAB with additional new materials is a self contained volume that provides a concise and comprehensive coverage of the theory and technology of optical wireless communication systems OWC The delivery method makes the book appropriate for students studying at undergraduate and graduate levels as well as researchers and professional engineers working in the field of OWC The book gives a detailed description of OWC focusing mainly on the infrared and visible bands for indoor and outdoor applications A major attraction of the book is the inclusion of Matlab codes and simulations results as well as experimental test beds for free space optics and visible light communication systems This valuable resource will aid the readers in understanding the concept carrying out extensive analysis simulations implementation and evaluation of OWC links This 2nd edition is structured into nine compact chapters that cover the main aspects of OWC systems History current state of the art and challenges Fundamental principles Optical source and detector and noise sources Modulation equalization diversity techniques Channel models and system performance analysis Visible light communications Terrestrial free space optics communications Relay based free space optics communications Matlab codes A number of Matlab based simulation codes are included in this 2nd edition to assist the readers in mastering the subject and most importantly to encourage them to write their own simulation codes and enhance their knowledge *Network Dictionary* Javvin Wwww Networkdictionary Com, 2007 Whether the reader is the biggest technology geek or simply a computer enthusiast this integral reference tool can shed light on the terms that ll pop up daily in the communications industry Computer Books Communications Networking **Indoor Infrared Wireless Communication Channels** Mohammad Reza Pakravan, 2000 The emergence of portable computing devices is expected to accelerate the

introduction of wireless Local Area Networks LANs Portable devices require connectivity with low power consumption small size and weight The demand for inexpensive high speed communication links satisfying these requirements has encouraged the research on infrared wireless communications In this thesis the fundamentals of infrared communications and different suitable configurations are reviewed The basic nature of the infrared channel the differences between the infrared channel and radio frequency channel and the important communication problems faced by infrared systems are explained An infrared channel simulation algorithm that is used to estimate its impulse response is described An extensive set of measurements has been performed to investigate the effects of receiver rotation receiver shadowing receiver displacement transmission configuration and communications environments on the characteristics of the infrared channel The characteristics of the wide band measurement system that was used to collect the infrared channel transfer functions are presented The objectives procedures results and conclusions of these measurements are discussed and reported Diffusers are an important element of infrared transmission systems They are used to control the radiation pattern of the transmitter for efficiency and eye safety Holographic diffusers have been designed and manufactured to provide better infrared radiation patterns These diffusers were used in the measurement setup to assess the performance enhancements that can be achieved by using holographic diffusers The results show uniform and efficient use of optical power and better tolerance to shadowing by using these devices

Performance Analysis of Wireless Infrared Communication Systems Konstantinos Samaras,1998

Power-efficient Modulation for High-speed Non-directed Wireless Infrared Communication Malik Douglas Audeh,1995

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