

Low-Power Wireless Infrared Communications

Rob Otte

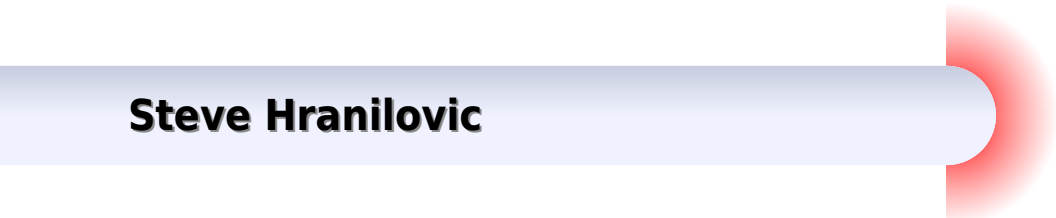
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Low Power Wireless Infrared Communications:

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

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Wideband FM Techniques for Low-Power Wireless Communications John F.M. Gerrits, 2022-09-01 Ultra Wideband UWB communications are poised to enable short range applications such as remote health monitoring e health and home or office automation Sensor networks are also suitable candidates for UWB since the low radiated power of the UWB transmitter enables low DC power consumption yielding long battery life and the possibility to use energy scavenging Size and cost constraints require a low complexity approach that allows multiple users to share the same RF bandwidth and offers robustness to interference frequency selective multipath and antenna mismatch Wideband FM Techniques for Low Power Wireless Communications presents research and applications that have taken place in UWB Communications over the past years This book is being published posthumously in agreement with the authors former colleagues from both the Swiss Center for Electronics and Microtechnology CSEM and Delft University of Technology in The Netherlands

Wireless Infrared Communications John R. Barry, 2012-10-08 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 seam less system infrastructure that allows users to move between the two There are unan swered 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 **Wireless Optical**

Communication Systems Steve Hranilovic,2006-01-16 This volume addresses the problem of designing efficient signalling and provides a link between the areas of communication theory and modem design for amplitude constrained linear optical intensity channel It provides practical guidelines for the design of signalling sets for wireless optical intensity channels

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 *The Fifth Generation (5G) of Wireless Communication* Ahmed Kishk,2019 The Fifth Generation 5G of Wireless Communication is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of Electrical and Electronic Engineering The book comprises single chapters authored by various researchers and edited by an expert active in the Electrical and Electronic Engineering research area All chapters are complete in itself but united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on the fifth generation 5G of wireless communication and open new possible research paths for further novel developments

Power-efficient Coded Modulation for Wireless Infrared Communication David Chien Min Lee,1998 *Numerical Analysis* Jan Awrejcewicz,2011-09-09 Numerical Analysis Theory and Application is an edited book divided into two parts Part I devoted to Theory and Part II dealing with Application The presented book is focused on introducing theoretical approaches of numerical analysis as well as applications of various numerical methods to either study or solving numerous theoretical and engineering problems Since a large number of pure theoretical research is proposed as well as a large amount of applications oriented numerical simulation results are given the book can be useful for both theoretical and applied research aimed on numerical simulations In addition in many cases the presented approaches can be applied directly either by theoreticians or engineers *Visible Light Communication* Shlomi Arnon,2015-03-05 Visible light communication VLC is an evolving communication technology for short range applications Exploiting recent advances in the development of high power visible light emitting LEDs VLC offers an energy efficient clean alternative to RF technology enabling the development

of optical wireless communication systems that make use of existing lighting infrastructure Drawing on the expertise of leading researchers from across the world this concise book sets out the theoretical principles of VLC and outlines key applications of this cutting edge technology Providing insight into modulation techniques positioning and communication synchronisation and industry standards as well as techniques for improving network performance this is an invaluable resource for graduate students and researchers in the fields of visible light communication optical wireless communication and industrial practitioners in the field of telecommunications

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