



# Wireless Optical Communication Systems

**Ian Pickup**



## **Wireless Optical Communication Systems:**

*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

**Wireless Optical Communication Systems** Steve Hranilovic, 2008-11-01 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* Z. Ghassemlooy, W. Popoola, S. Rajbhandari, 2012-08-08 Detailing a systems approach Optical Wireless Communications System and Channel Modelling with MATLAB is a self contained volume that concisely and comprehensively covers the theory and technology of optical wireless communications systems OWC in a way that is suitable for undergraduate and graduate level students as well as researchers and professional engineers Incorporating MATLAB throughout the authors highlight past and current research activities to illustrate optical sources transmitters detectors receivers and other devices used in optical wireless communications They also discuss both indoor and outdoor environments discussing how different factors including various channel models affect system performance and mitigation techniques In addition this book broadly covers crucial aspects of OWC systems Fundamental principles of OWC Devices and systems Modulation techniques and schemes including polarization shift keying Channel models and system performance analysis Emerging visible light communications Terrestrial free space optics communication Use of infrared in indoor OWC One entire chapter explores the emerging field of visible light communications and others describe techniques for using theoretical analysis and simulation to mitigate channel impact on system performance Additional topics include wavelet denoising artificial neural networks and spatial diversity Content also covers different challenges encountered in OWC as well as outlining possible solutions and current research trends A major attraction of the book is the presentation of MATLAB simulations and codes which enable readers to execute extensive simulations and better understand OWC in general

**Optical Wireless Communication** Xizheng Ke, Ke Dong, 2022-07-01 The book gives a detailed description of optical wireless communication OWC including optical laser communication visible light communication ultraviolet communication underwater optical communication and future communication technologies To achieve an integration between theory and practice the book avoids tedious mathematical deductions and includes theoretical materials as exercises Most of the exercises are originated from published journal articles These exercises will aid the readers in understanding the basic concept and methods and evaluating their knowledge acquisition in the field of OWC The book is structured into Ten chapters that covers main aspects of OWC Optical wireless communication system Coherent optical communication Modulation demodulation and coding Atmospheric channel channel estimation and channel

equalization White LED communication Underwater laser communication Ultraviolet communication Acquisition aiming and tracking technology Partially coherent optical transmission Optical communication in the future The book is a suitable reference for undergraduate or postgraduate students majored in communication engineering electronic information engineering or computer science as well as the engineers and technicians in related fields Optical Wireless Communications Z. Ghassemlooy, 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

**Free-Space Optical Communication Systems for Next Generation Networks** Abhijeet Upadhyay, Vivek K. Dwivedi, Ghanshyam Singh, 2024-11-15 This book provides insights in the field of free space optical FSO communication which is considered the next frontier for future generation broadband wireless networks The authors discuss various factors limiting practical implementations of the mixed radio frequency free space optical RF FSO relaying technology to determine the impact of important parameters on the performance of mixed RF FSO relaying systems The book presents the various generalized channel models that can be adopted to model RF and FSO link statistics Further it presents the modeling of amplify and forward AF and decode and forward DF forms of cooperative relaying schemes This book enables readers to understand the various mitigation techniques that can be utilized in mixed RF FSO relaying in order to improve the overall user experience The authors discuss the importance of artificial intelligence and machine learning in the field of wireless optical communication systems Finally the optical wireless channel modeling using both CNN and LSTM model is explored with their potential to enhance the accuracy and reliability of channel estimation **Wireless Optical Communications** Olivier Bouchet, 2013-02-04 Wireless optical communication refers to communication based on the unguided propagation of

optical waves The past 30 years have seen significant improvements in this technique a wireless communication solution for the current millennium that offers an alternative to radio systems a technique that could gain attractiveness due to recent concerns regarding the potential effects of radiofrequency waves on human health The aim of this book is to look at the free space optics that are already used for the exchange of current information its many benefits such as incorporating channel properties propagation models link budgets data processing including coding modulation standards and concerns around health and safety IEC 60825 or FCC Class 1 for example etc will become indispensable over the next decade in addressing computer architectures for short medium and long range telecommunications as we move from gigabytes to terabytes per second Wireless Optical Communications is an excellent tool for any engineer wanting to learn about wireless optical communications or involved in the implementation of real complete systems Students will find a wide range of information and useful concepts such as those relating to propagation optics and photometry as well the necessary information on safety Contents 1 Light 2 History of Optical Telecommunications 3 The Contemporary and the Everyday Life of Wireless Optical Communication 4 Propagation Model 5 Propagation in the Atmosphere 6 Indoor Optic Link Budget 7 Immunity Safety Energy and Legislation 8 Optics and Optronics 9 Data Processing 10 Data Transmission 11 Installation and System Engineering 12 Conclusion

**Advanced Optical and Wireless Communications Systems** Ivan B. Djordjevic, 2022-06-21 The new edition of this popular textbook keeps its structure introducing the advanced topics of i wireless communications ii free space optical FSO communications iii indoor optical wireless IR communications and iv fiber optics communications but thoroughly updates the content for new technologies and practical applications The author presents fundamental concepts such as propagation principles modulation formats channel coding diversity principles MIMO signal processing multicarrier modulation equalization adaptive modulation and coding detection principles and software defined transmission first describing them and then following up with a detailed look at each particular system The book is self contained and structured to provide straightforward guidance to readers looking to capture fundamentals and gain theoretical and practical knowledge about wireless communications free space optical communications and fiber optics communications all which can be readily applied in studies research and practical applications The textbook is intended for an upper undergraduate or graduate level courses in fiber optics communication wireless communication and free space optical communication problems an appendix with all background material needed and homework problems In the second edition in addition to the existing chapters being updated and problems being inserted one new chapter has been added related to the physical layer security thus covering both security and reliability issues New material on 5G and 6G technologies has been added in corresponding chapters

**Optical Wireless Communications** Murat Uysal, Carlo Capsoni, Zabih Ghassemlooy, Anthony Boucouvalas, Eszter Udvary, 2016-08-25 This book focuses on optical wireless communications OWC an emerging technology with huge potential for the provision of pervasive and reliable next generation communications networks It shows how the

development of novel and efficient wireless technologies can contribute to a range of transmission links essential for the heterogeneous networks of the future to support various communications services and traffic patterns with ever increasing demands for higher data transfer rates The book starts with a chapter reviewing the OWC field which explains different sub technologies visible light ultraviolet UV and infrared IR communications and introduces the spectrum of application areas indoor vehicular terrestrial underwater intersatellite deep space etc This provides readers with the necessary background information to understand the specialist material in the main body of the book which is in four parts The first of these deals with propagation modelling and channel characterization of OWC channels at different spectral bands and with different applications The second starts by providing a unified information theoretic treatment of OWC and then discusses advanced physical layer methodologies including but not limited to advanced coding modulation diversity cooperation and multi carrier techniques and the ultimate limitations imposed by practical constraints On top of the physical layer come the upper layer protocols and cross layer designs that are the subject of the third part of the book The last part of the book features a chapter by chapter assessment of selected OWC applications Optical Wireless Communications is a valuable reference guide for academic researchers and practitioners concerned with the future development of the world s communication networks It succinctly but comprehensively presents the latest advances in the field

**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

**Free-Space Optics** Olivier Bouchet, Hervé Sizun, Christian Boisrobert, Frédérique de Fornel, 2010-01-05 Free space optics is a telecommunications technique which is already being used for everyday exchange of information and has many advantages over other techniques bandwidth low cost mobility of the equipment security etc within the next decade it is likely to become an integral and essential part of data processing architectures and telecommunications A history of wireless optical telecommunications is given together with a recapitulation of the application of the principles of electromagnetism to free space optics Coverage is also given to the transmitters and receivers of optical beams which are the basis of any optical communication system These devices were responsible for the first truly significant advances in the performance of these systems Special attention is given to the problems associated with the propagation of photons both in the presence and absence of obstacles since these are key issues in gaining an understanding of future telecommunication systems based on wireless optics Finally the authors consider standards as well as safety and confidentiality issues

Wireless Optical Communication Systems Steve Hranilovic, P.Hr. Petkov, 2006-09-01

**Advanced Optical Wireless Communication Systems** Shlomi Arnon, 2012 Combines theory with real world case studies to give a comprehensive overview of modern optical wireless technology

*Advanced Optical Wireless Communication Systems*

Shlomi Arnon,John Barry,George Karagiannidis,2012-05-24 Combines theory with real world case studies to give a comprehensive overview of modern optical wireless technology *Telecommunication Systems* Isiaka Alimi,Paulo P. Monteiro,António L. Teixeira,2019-10-30 This book is based on both industrial and academic research efforts in which a number of recent advancements and rare insights into telecommunication systems are well presented The volume is organized into four parts Telecommunication Protocol Optimization and Security Frameworks Next Generation Optical Access Technologies Convergence of Wireless Optical Networks and Advanced Relay and Antenna Systems for Smart Networks Chapters within these parts are self contained and cross referenced to facilitate further study **Advanced Optical Communication Systems** Vladimir Latinovic,2015-03-20 This book presents a descriptive account on various latest advances in the field of optical communication systems These systems are extremely essential for all types of networks and telecommunications They comprise of a transmitter which encodes the message into an optical signal a channel which carries the signal to its destination and a receiver which reproduces the message from the received optical signal This book provides updated results on communication systems with elucidations on their relevance provided by veteran researchers in this field It encompasses fundamental concepts of optical and wireless optical communication systems optical multiplexing and demultiplexing for optical communication systems optical amplifiers and networks and network traffic engineering Lately wavelength conversion and other advanced signal processing functions have also been studied in detail for optical communications systems The book emphasizes on wavelength conversion demultiplexing in the time domain switching and other optimized functions for optical communications systems It is primarily aimed at assisting in advancement and research for a wide range of readers including design engineer teams in manufacturing industry academia and telecommunications service operators providers **Optical and Wireless Technologies** Manish Tiwari,Yaseera Ismail,Karan Verma,Amit Kumar Garg,2023 This book comprises select proceedings of the 5th International Conference on Optical and Wireless Technologies OWT 2021 The contents of this book focus on research carried out in optical communication optoelectronics optics wireless communication wireless networks sensors mobile communications and antenna and wave propagation The book also explores the combined use of various optical and wireless technologies in next generation applications and their latest developments in the applications such as photonics high speed communication systems and networks visible light communication nanophotonics and wireless and MIMO systems This book serves as a reference to scientists academicians engineers and policy makers interested in the field of optical and wireless technologies *All-optical Communication Systems: Architecture, Control, and Network Issues* ,1997 Optical Wireless Communications Zabih Ghassemlooy,A. C. Boucouvalas,2000 **Research on Enabling Techniques for Optical Wireless Communication and Free Space Optical Communication Systems** ,2022

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