

3 .WORKING OF LI-FI

In order to know the working of Li-fi we need to know the necessity for Li-fi .With the vast development in living the use of gadgets and invention of new gadgets is increasing which lead to the technological developments.



FIG. 2 Construction of li-fi technology

There are many situations in which people get frustrated with the dull performance signals of Wi-Fi at a place with many network connections in seminars conferences etc. Li fi fulfills these needs this fantabulous idea first struck the mind of Harald Haas from University of Edinburgh, UK., in his TED Global talk on VLC. His idea was very simple that if the LED is "on" then the digital 1 can be transmitted and if the led is "off" then the digital 0 can be transmitted. Led's can be switched on and off very quick. For transmitting data this way all that we require is LED's and controller that code data into Led's. Parallel data transmission can be done by using array of LED's or by using red, green, blue LED's to alter light frequency with the frequency of different data channel. Advancements and enhancements in this field generate a speed of 10 gbps! But amazingly fast data rates and lowering band widths are not the only reasons that enhance this technology. Li-fi usually is based on light and so it can be probably implemented in aircrafts and hospitals that are prone to interference from radio waves. Unlike Wi-Fi Li-Fi can work even under- water which makes it more

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Advances in Electronics, Computer, Physical and Chemical Sciences Saiyed Salim Sayeed, Hemant Kumar Sharma, Pramod Kumar Yadav, Brijesh Mishra, 2025-04-29 The conference aimed to provide a platform for researchers scientists technocrats academicians and engineers to exchange their innovative ideas and new challenges being faced in the field of emerging technologies It provided an opportunity to exchange ideas among global leaders and experts from academia and industry in developing domains such as machine learning intelligence systems smart infrastructure advanced power technology and so forth It covered all broad disciplines of electronics computer physical and chemical science engineering

Telematics and Computing Miguel Felix Mata-Rivera, Roberto Zagal-Flores, Cristian Barría-Huidobro, 2019-10-24 This book constitutes the thoroughly refereed proceedings of the 8th International Congress on Telematics and Computing WITCOM 2019 held in Merida Mexico in November 2019 The 31 full papers presented in this volume were carefully reviewed and selected from 78 submissions The papers are organized in topical sections GIS telematics artificial intelligence software engineering internet of things and informatics security

Proceedings 1997 Symposium on Document Image Understanding Technology David Doermann, 1997 2025-26 All UPPSC General Studies Solved Papers YCT Expert Team , 2025 26 All UPPSC General Studies Solved Papers 1000 995 E This book contains 396 sets of the Previous Year Solved Papers 26 Years UPSC IAS/ IPS Prelims Topic-wise Solved Papers 1 & 2 (1995 - 2020) 11th Edition Disha Experts, 2020-01-01 *Directory of Industrial Information Services and Systems in Developing Countries* , 1981

Scientific and Technical Aerospace Reports , 1988 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database PC Mag , 1983-02 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology

5G and Beyond Bharat Bhushan, Sudhir Kumar Sharma, Raghvendra Kumar, Ishaani Priyadarshini, 2023-08-29 This open access book aims to highlight the coming surge of 5G network based applications and predicts that the centralized networks and their current capacity will be incapable of meeting the demands The book emphasizes the benefits and challenges associated with the integration of 5G networks with varied applications Further the book gathers and investigates the most recent 5G based research solutions that handle security and privacy threats while considering resource constrained wireless devices The information applications and recent advances discussed in this book will serve to be of immense help to practitioners database professionals and researchers

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more Two arrangements of t **Medical Research Index** ,1979 International Aerospace Abstracts ,1997 **Bank and Quotation Record** ,1987 *Government Reports Announcements & Index* ,1996 **Reverse Acronyms, Initialisms, & Abbreviations Dictionary** ,2007 **Laporan rapat kerja Lembaga Ilmu Pengetahuan Indonesia tahun 2011** Lembaga Ilmu Pengetahuan Indonesia,2011 *Enhanced Data Transmission using Li-Fi in Visible Light Communication (VLC) Technology* Dr.M.Vijayalakshmi,Dr.M.Sri Raghavendra, **Techniques for Improving Li-Fi Data Rate for Display Systems with Visible Light Communication Capability** Liusheng Sun,2017

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