**REFERENCES**

Alex. Krasnok, D. Baranov, H. Li, M. Miri, F. Monticone, and A. Alú, "*Anomalies in light*  *scattering*," Adv. Opt. Photon. 11, 892-951 (2019).

Andrey Somov,. A.Baranov, D Spirjakin & R Passerone, (2014). Circuit Design and Power

Consumption Analysis of Wireless Gas Sensor Nodes. *IEEE Sensors 14 (6*), 2056- 2063

Arduino IDE [Available online: [www.arduino.org/downloads](http://www.arduino.org/downloads)]

Arthur E. Cote. (2003) *Operation of Fire Protection systems*. Jones and Bartlett Learning

Publishers.ISBN-13:978-0-87765-577-0, ISBN: 0- 87765-577-4. pp.34-60.

B.L.Theraja (1999). *Fundamentals of Electrical Engineering and Electronics*. S.Chand

&company ltd. ISBN: 81-219-0289-4 pp1684-1741

Bot, Yizhak & Herrer, Yoram & Korenfeld, Haim & Gabay, Yeuda. (1997). *Reliability of*

*Electronic Components Failure Rates Prediction Methods*. 10.1016/B978-008042835-2/50122-3.

Brain B. Graham (2000). Using Accelerometer Sensor to Measure Human Hand Motion.

Massachusetts Institute of Technology.

Carolyn Mathas (2012). Sensing Motion with Passive Infrared (PIR). *In: Electronic product*

*magazine.*2011-2012, p23.

[Chonggang Wang](https://www.google.com.ng/search?tbo=p&tbm=bks&q=inauthor:%22Chonggang+Wang%22&source=gbs_metadata_r&cad=7), [Tao Jiang](https://www.google.com.ng/search?tbo=p&tbm=bks&q=inauthor:%22Tao+Jiang%22&source=gbs_metadata_r&cad=7), [Qian Zhang](https://www.google.com.ng/search?tbo=p&tbm=bks&q=inauthor:%22Qian+Zhang%22&source=gbs_metadata_r&cad=7) (2014), ZigBee® Network Protocols and

Applications. CRC Press, 2014, ISBN 1439816018, 9781439816011, pp4-12, pp154-160.

Connor, P.D.T (1988). Reliability of Electronic Systems. Washington: Hemisphere

Publishing Corporation.

Conyers,J.,(1999) *Electromigration* Microstructural Kinetics Group, University of

Cambridge (Retrieves from: <http://www.msm.cam.ac.uk/mkg/e_mig.html> )

Data sheets for Electonics Components [Available online:

[https*://www.alldatasheets.com/view.jsp?searchword=*](https://www.alldatasheets.com/view.jsp?searchword=)]

Deepali J, Moh’d M, Shreerang N, Mayur S (2013). Home Automation and Security System

Using Android ADK. *International Journal of Electronics Communication and* *Computer Technology* vol.3 issue 2, 147-150.

Eason (2011). *Americium Smoke Detectors*. Electronics Engineering Department, Stanford University.

E. Isa and N. Sklavos (2017). Smart Home Automation: GSM Security System Design &

Implementation*. Journal of Engineering Science and Technology Review* 10 (3) (2017)170-174

G. L. Anderson and D. M. Hadden (1999*). The Gas Monitoring Handbook*. Avocet

Prublisher Inc

Giorgio Sberveglieri (2012). *Gas Sensors: Principle Operation and Implementation*. Springer

Science& Business Media

Girisha S.,Kasun Z., (2013) *A Low Cost Infrasonic Recording System*. Wireless Sensor

Network Research Laboratory, University of Colombo School of Computing.

H. U. Zaman, Rafiunnisa and A. M. Shams, A User-Friendly Low-Cost Mobile App Based

Home Appliance Control and Circuit Breaker, 2018 *Second International Conference on Computing Methodologies and Communication (ICCMC)*, Erode, India, 2018, pp. 203-208, doi: 10.1109/ICCMC.2018.8487667.

# Hadi Habibzadeh,Brian H. Nussbaum,Fazel Anjomshoa,Burak Kantarci ( 2016 ). *A survey*

# *on cybersecurity, data privacy, and policy issues in cyber-physical system*

# *deployments in smart cities.* [Access Online 2020]. *Elsevier Inc.*

# https://doi.org/10.1016/j.scs.2019.101660

Hassan H.S., Elkady M.F. Dasgupta N., Ranjan S., Lichtfouse E. (2020) Semiconductor

Nanomaterials for Gas Sensor Applications. *Environmental Nanotechnology Volume 3. Environmental Chemistry for a Sustainable World, vol 27*. Springer, Cham. <https://doi.org/10.1007/978-3-030-26672-1_10>

Hong Lui, Shaoping W., Mileta Tomovic*,* (2016). Commercial Aircraft Hydraulic Systems*.*

*Elsevier Inc.* ISBN 978-0-12-419972-9

Huiping H., Shide X., Xiangyin M.,Ying X.,( 2010). A Remote Home Security System Based

On Wireless Sensor Network and GSM Technology. *IEEEE Magazine*

J.Bangali and A.Shaligram (2013). Design and Implementation of Security Systems

for Smart Home based on GSM Technology. *International Journal of Smart Homes* vol.7 No.6, pp.201-208

J.Chandramohan, R.Nagarajan, K.Satheeshkumar, N.Ajithkumar, P.A. Gopinath,

S.Ranrithkumar (2015). Intelligent Smart Home Automation and Security System Using Arduino and Wi-fi. *International Journal of Engineering and Computer Science* ISSN:2319-7242

J. Chou (2000). *Hazardous Gas Monitors: A Practical Guide to Selection, Operation and*

*Application*. Co-published by McGraw-Hill and SciTech Publishing

Jose C., Thomas L. (2014). Wireless Data Acquisition System using Bluetooth Technology

for Infrasonic Records. *Computing magazine* 7(2): pages 18-21

Jose A. C and R. Malekian, Improving Smart Home Security: Integrating Logical Sensing

Into Smart Home, *IEEE Sensors Journal*, vol. 17, no. 13, pp. 4269-4286, 1 July1, 2017, doi: 10.1109/JSEN.2017.2705045

Josh Potts and Somsak Sukittanon, (2012). Exploiting Bluetooth on Android Mobile Devices

for Home Security Application. *IEEE Magazine* 978-1-4673-1375-9/12

k.Ahmad (2015). Development of Android Controlled Embedded Ground Vehicle with

Robotic Arm Using Intel Galileo Single-board Computer. *Zaria Journal of Engineering Technology, Vol.4, Number 1 and2, March and September 2015.*

Keith Flanders (2009). Combinational Smoke Detector. School of Electronics Engineering,

Worcester Polytechnic Institute, Massachusetts

Kumar K, Charan. (2015). Temporal variation of radioactivity at NARL, Gadanki.

*International Journal of Advanced Research in Science and Technology*. 4. 469-471.

Lawrance Fennelly (2003). *Effective Physical Security.* Butterworth – Heinemann Publisher.

ISBN: 97 8012 4158 924 eBook ISBN:97 8012 4159 815

L.K. Wang, W.Lin, Y.Hung (2004). *Air Pollution Control Engineering* ISBN:978-1-59259-

778-9

Micheal Carchia, (1999*). Electronic/Electrical Reliability, Dependable Embedded Systems*.

Carnegie Mellon University, 18 -849b

Md. Khalid J., Md. Niaz M., M Rahmam, S. Ali, D. Hossain, K. Ghosh. (2017). Design and

Implementation of a Versatile and Intelligent Home Security System*. International Journal of Engineering and Manufacturing (IJEM),* Vol.7, No.4, pp.60-72

Military handbook on reliability prediction of electronic equipment (1990) (Available online:

<https://snebulos.mit.edu/projects/reference/MIL-STD/MIL-HDBK-217F-Notice2.pdf>)

Nupur K.S., Payal D.W, Kajal A.P., (2014). Bluetooth Based Device Automation System

Using Cellphone. *International Journal of Computer Applications and Information* *Technology*.vol.7, issue 1 Oct.- Nov 2014

O.A. Akinola (2017). Reliability and Maintainability of Electrical and Electronic Systems.

Engineering Relaibility Lecture Note.Federal University of Agriculture Abeokota.

Olarewaju I., Odo A., Fasunla M., Egbuwalo A., Raimi A., (2017). Design and Construction

of an Automatic Home Security System Based on GSM Technology and Embedded Microcontroller Unit. *Science Publishing Group*, 2017;1(1):25-32

Poncette AS, Spies C, Mosch L, Schieler M, Weber-Carstens S, Krampe H, Balzer F (2019)

*Clinical Requirements of Future Patient Monitoring in the Intensive Care Unit: Qualitative Study*. JMIR Med Inform 2019;7(2):e13064. URL: https://medinform.jmir.org/2019/2/e13064

DOI: 10.2196/13064 PMID: 31038467 PMCID: 6658223

Proteus PCB Design & Simulation Software- Labcenter Electronics, labcenter.com, 2017.

www.labcenter.com/ [Accessed: 26- jan-2020]

Qasim.H. H, A. E. Hamza, L. Audah, H. H. Ibrahim, H. A. Saeed, M. I. Hamzah, (2020).

Design and implementation home security system and monitoring by using wireless sensor networks WSN/internet of things IoT.International Journal of Electrical and Computer Engineering (IJECE) Vol. 10, No. 3, June 2020, pp. 2617~2624 ISSN: 2088-8708, DOI: 10.11591/ijece.v10i3.pp2617-2624

R.Mandal (2013). Application of Gas Monitoring Sensors in Underground Coal Mines and

Hazardous Area. *International Journal of Computer Technology and Electronics Engineering (IJCTEE)*

Raqibull H., Mohammad K., Asaduzzaman A., Israt R., (2015). Microcontroller Based Home

Security System with GSM Technology*. Open Journal of Safety Science and Technology, 5, 55-62.*

Ravi K., Vishal J., Suvadeep B., Lakshimi B., (2016). IoT Based Smart Security and Home

Automation System. Paper presented at *International Conference on Computing, Communication and Automation* (ICCA2016) pp.245-334.

Richard C. Olsen (2007). *Remote Sensing from Air and Space*. Naval Postgraduate School,

Monterey, ISBN 10: 081 9462 357. Published SPIE Press

S. J. Danbatta and A. Varol, "Comparison of Zigbee, Z-Wave, Wi-Fi, and Bluetooth Wireless

Technologies Used in Home Automation," 2019 7th International Symposium on Digital Forensics and Security (ISDFS), Barcelos, Portugal, 2019, pp. 1-5, doi: 10.1109/ISDFS.2019.8757472.

S. U. Amin, M. S. Hossain, G. Muhammad, M. Alhussein and M. A. Rahman (2019) ,

"*Cognitive* *Smart Healthcare for Pathology Detection and Monitoring,"* in IEEE Access, vol. 7, pp. 10745-10753, 2019, doi: 10.1109/ACCESS.2019.2891390.

Sergey Y. Yurish (2012). *Digital and Intelligent Sensors and Sensor Systems: Practical*

*Design*. International Frequency Sensor Association IFSA President, Barcelona,

Spain

S. M. Sze and Kwok K.Ng (2007). Physics of semiconductor Devices, 3rd Edition published

by John Wiley and Sons, Inc.

S. Giannakis, M.Inmaculada, C.Pulgarin, (2016). Solar disinfection is an augmentable,

*in situ-*generated photo-Fenton reaction. Applied Catalyst B Environmental

.

S.Kumar and S.R.Lee, (2014). Android Based Smart Home System with Control Via

Bluetooth and Internet Connectivity. IEEE International Symposium

Timo H., Javier R., Juan M., (2004). GSM, GPRS and EDGE Performance: Evolution

Towards3G/UMTS

Thomas C. Hayes and Paul Horowitz (1995). *The art of electronics*. Cambridge university

press ISBN 0-521-37709-9

# Thomas Ritter, Julia Lattus, Gunter Hagen and Ralf Moos (2018) Effect of the

# Heterogeneous Catalytic Activity of Electrodes for Mixed Potential Sensors, [*Journal of The Electrochemical Society*](https://iopscience.iop.org/journal/1945-7111)*,*[*Volume 165*](https://iopscience.iop.org/volume/1945-7111/165)*,*[*Number 16*](https://iopscience.iop.org/issue/1945-7111/165/16)

Tyler R. R, Jungil C, Amay J. B, Siddharth K, Philipp G, Limei T, Roozbeh Ghaffari, John

A.Rogers (2019) Bio-Integrated Wearable Systems: A Comprehensive Review.Chemical Reviews***2019***119 (8), 5461-*5533 DOI: 10.1021/acs.chemrev.8b00573*

V. Shetter,S. B. Kotin, K.B. Kumar, B.G. Sheeparamatti (2014).Simulation of Different

MEMS Pressure Sensors. *International Journal of Multidiscipline Research* *and Advancement in Engineering (IJMRAE*) ISSN 0975 – 7074, vol 6 page 73 -81

Vilalta, C.J., Sanchez, T. & Fondevila, G. (2021) The impact of city block type on residential

burglary: Mexico City as case study. *Crime Law Soc Change* **75,**73–88 (2021). <https://doi.org/10.1007/s10611-020-09920-3>

Walls, L., and Quigley, J. (2000). *Learning to Enhance Relaibility of Electronic Systems*

*through Effective Modeling and Risk Assessment*. Available online: <http://ieeexplore.ieee.org/document/816334>

Warrendale P.A. (1987). *Electronics Reliability Subcommittee*. Automotive electronics

reliability handbook. Society of Automotive Engineers, Inc.page169,328-9

Y. Pawar, A. Chopde, M. Nandre (2018). Motion Detection Using PIR Sensor. *International*

*Research Journal for Engineering and Technology (IRJET*) e-ISSN:2395-0056

Yondhui Deng (2019) Sensing Mechanism and Evaluation Criteria of Semiconducting Metal

Oxides Gas Sensors. ISBN: 978-981-13-5852-4