

ELECTRONICS

ELECTRICAL ENGINEERING (POWER OPTION) LEVEL 6

Unit of Competency: DEMONSTRATE UNDERSTANDING OF ELECTRONICS

Lecture Notes

Course Outline

1. Demonstrate understanding of semiconductor theory
 - Definition of terms
 - Types of materials
 - Insulators
 - Conductors
 - Semiconductors
 - Types of semiconductor materials
 - Intrinsic and Extrinsic
2. Demonstrate understanding of semiconductor diodes
 - Definition of terms
 - P-N junction
 - Semiconductor diodes
 - Forward and reverse characteristics
 - Types of semiconductor diodes
 - Application of semiconductor diodes
3. Demonstrate understanding of transistors
 - Bipolar junction transistors (BJTs)
 - Operation of NPN and PNP transistors
 - Field effect transistors (FETs)
 - BJT's and FET's configuration
 - Characteristics of transistors
 - Gain of transistors
 - DC and AC load lines
4. Apply special semiconductor devices
 - Definition of terms
 - Types of special semiconductor devices
 - UJT
 - SCR
 - LASCR
 - DIAC
 - TRIAC
 - SCS
 - Application of special semiconductor devices
5. Perform rectification
 - Definition of terms
 - Classification of rectifiers
 - Types of rectifiers
 - Application of rectifiers
 - Types of converters
 - Application of converters
6. Apply amplifiers
 - Definition of terms
 - Types of amplifiers

Industrial Electronics Lecture Notes

Lei Huang



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The Industrial Electronics Handbook - Five Volume Set Bogdan M. Wilamowski, J. David Irwin, 2011-03-04 Industrial electronics systems govern so many different functions that vary in complexity from the operation of relatively simple applications such as electric motors to that of more complicated machines and systems including robots and entire fabrication processes The Industrial Electronics Handbook Second Edition combines traditional and new **Fundamentals of Industrial Electronics** Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The Industrial Electronics Handbook Second Edition combines traditional and newer more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications Embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems It also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components Enhancing its value this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal one of the largest and most respected publications in the field Fundamentals of Industrial Electronics covers the essential areas that form the basis for the field This volume presents the basic knowledge that can be applied to the other sections of the handbook Topics covered include Circuits and signals Devices Digital circuits Digital and analog signal processing Electromagnetics Other volumes in the set Power Electronics and Motor Drives Control and Mechatronics Industrial Communication Systems Intelligent Systems *Industrial Electronics for Engineers, Chemists, and Technicians* Daniel J. Shanefield, 2001-01-10 Turn to this multipurpose reference for a practical understanding of electronics in the factory or laboratory It s perfect for people who are not electrical engineers but who need to use electronic equipment every day at work Avoid or solve common problems in the use of electronics in the factory or lab and optimize the use of measurement and control equipment with this helpful resource The guide is easy to understand by anyone who has taken a high school physics course yet it provides quick specific solutions for such electronics issues as feedback oscillation ground loops impedance mismatch noise pickup and optimization of PID controllers Use Industrial Electronics as a hands on resource to handle typical electronics questions as they arise as a self study text to provide a broad background for understanding general electronics issues and design or even for an instructor led on the job training course in shop or lab electronics Because of the highly detailed explanations in the book instructors themselves do not need to be experts Of course the volume is perfect for use as a textbook in college and vocational school courses The laboratory experiments are optional and may be used merely as examples Components are inexpensive and can be obtained from consumer electronics stores such as Radio Shack or from electronics suppliers on the Web The circuit diagrams are greatly simplified and

completely understandable with every component explained *Electronics for Industrial Design* M. Hajian, Delft University of Technology, Faculty of Industrial Design. Product Engineering Group, 2014

Novel Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics Tarek Sobh, Khaled Elleithy, Ausif Mahmood, Mohammad A. Karim, 2008-08-15 Novel Algorithms and Techniques in Telecommunications Automation and Industrial Electronics includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking Novel Algorithms and Techniques in Telecommunications Automation and Industrial Electronics includes selected papers from the conference proceedings of the International Conference on Industrial Electronics Technology and Automation IETA 2007 and International Conference on Telecommunications and Networking TeNe 07 which were part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2007

Electronics for Industrial Design M. Hajian, Delft University of Technology, Faculty of Industrial Design Engineering. Product Engineering Group, 2012

Innovations in Industrial Engineering José Machado, Filomena Soares, Justyna Trojanowska, Vitalii Ivanov, 2021-06-23 This book covers a variety of topics in the field of industrial engineering with a special focus on research and industrial applications aimed at both improving quality of processes and products and contributing to a sustainable economy Based on a set of papers presented at the 1st International Conference Innovation in Engineering ICIE held in Guimar es Portugal on June 28 30 2021 it focuses on innovative technologies associated with and strategies for the development of Industry 4 0 The chapters discuss new ways to improve industrial production and supply chain management by applying mathematical and computational methods They also cover important issues relating to sustainability education and collaborations between industry and universities and national developments This book which belongs to a three volume set provides engineering researchers and professionals with a timely overview and extensive information on trends and technologies behind the current and future developments of Industry 4 0

Proceedings of the IEEE International Symposium on Industrial Electronics, 2005

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Blockchain and AI Technology in the Industrial Internet of Things Pani, Subhendu Kumar, Lau, Sian Lun, Liu, Xingcheng, 2021-01-08 Blockchain and artificial intelligence AI in industrial internet of things is an emerging field of research at the intersection of information science computer science and electronics engineering The radical digitization of industry coupled with the explosion of the internet of things IoT has set up a paradigm shift for industrial and manufacturing companies There exists a need for a comprehensive collection of original research of the best performing methods and state of the art approaches in this area of blockchain AI and the industrial internet of things in this new era for industrial and manufacturing companies Blockchain and AI Technology in the Industrial Internet of Things compares different approaches to the industrial internet of things and explores the direct impact blockchain and AI technology have on the betterment of the

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Table of Contents Industrial Electronics Lecture Notes

1. Understanding the eBook Industrial Electronics Lecture Notes
 - The Rise of Digital Reading Industrial Electronics Lecture Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics Lecture Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Industrial Electronics Lecture Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics Lecture Notes

- Personalized Recommendations
 - Industrial Electronics Lecture Notes User Reviews and Ratings
 - Industrial Electronics Lecture Notes and Bestseller Lists
5. Accessing Industrial Electronics Lecture Notes Free and Paid eBooks
 - Industrial Electronics Lecture Notes Public Domain eBooks
 - Industrial Electronics Lecture Notes eBook Subscription Services
 - Industrial Electronics Lecture Notes Budget-Friendly Options
 6. Navigating Industrial Electronics Lecture Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Industrial Electronics Lecture Notes Compatibility with Devices
 - Industrial Electronics Lecture Notes Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Industrial Electronics Lecture Notes
 - Highlighting and Note-Taking Industrial Electronics Lecture Notes
 - Interactive Elements Industrial Electronics Lecture Notes
 8. Staying Engaged with Industrial Electronics Lecture Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Industrial Electronics Lecture Notes
 9. Balancing eBooks and Physical Books Industrial Electronics Lecture Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Industrial Electronics Lecture Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Industrial Electronics Lecture Notes
 - Setting Reading Goals Industrial Electronics Lecture Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Industrial Electronics Lecture Notes

- Fact-Checking eBook Content of Industrial Electronics Lecture Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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