

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

Bogdan M. Wilamowski, J. David Irwin

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the slide, partially overlapping the grey bar.

Industrial Electronics Lecture Notes:

LECTURE NOTES ON POWER ELECTRONICS Amit Bhattacharyya, 2015-12-04 Power Electronics is a field which combines Power electric power Electronics and Control systems Power engineering deals with the static and rotating power equipment for the generation transmission and distribution of electric power Electronics deals with the study of solid state semiconductor power devices and circuits for Power conversion to meet the desired control objectives to control the output voltage and output power Power electronics may be defined as the subject of applications of solid state power semiconductor devices Thyristors for the control and conversion of electric power Power electronics deals with the study and design of Thyristorised power controllers for a variety of applications like Heat control Light Illumination control Motor control AC DC motor drives used in industries High voltage power supplies Vehicle propulsion systems and High voltage direct current HVDC transmission Power Electronics Handbook Muhammad H. Rashid, 2010-07-19 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency Power electronics has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications 25% new content Reorganized and revised into 8 sections comprising 43 chapters Coverage of numerous applications including uninterruptable power supplies and automotive electrical systems New content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission 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

Power Electronics and Renewable Energy Systems C. Kamalakannan, L. Padma Suresh, Subhransu Sekhar Dash, Bijaya Ketan Panigrahi, 2014-11-19 The book is a collection of high quality peer reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems ICPERES 2014 held at Rajalakshmi Engineering College Chennai India These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy The book discusses wide variety of industrial engineering and scientific applications of the emerging techniques It presents invited papers from the inventors originators of new applications and advanced technologies

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Electronics for Industrial Design M. Hajian, Delft University of Technology, Faculty of Industrial Design. Product Engineering Group, 2014

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