




SUBJECT and GRADE	Electrical Technology Grade 12	
TERM 2	Week 4	
TOPIC	3-phase Induction Motors	
AIMS OF LESSON	<p>Three phase squirrel cage induction motor operation, construction, advantages and applications</p> <p>Calculation of power, slip and efficiency</p> <p>Characteristic curve of speed vs torque</p>	
RESOURCES	Paper based resources	Digital resources
	Electrical Technology Grade 12 text Book (pg. 126-132)	<p>YouTube links and web pages as per this lesson</p> <p>NSC Exam Papers November 2018 – 2019</p> <p>Grade 12 exemplar paper 2018</p> <p>SEE END OF LESSON FOR YOUTUBE LINKS</p>
INTRODUCTION	<ul style="list-style-type: none"> You need to know the basic principle of magnetism as well as the operation and construction of the 1-phase motor to understand the 3-phase motor better This lesson is all about understanding the basic construction, operation advantages and applications of 3-phase motors Calculations with regards to power, slip and efficiency will also be done as well as understanding the characteristic curve of speed vs torque. This lesson must be done in conjunction with your text book 	
CONCEPTS AND SKILLS	<p>Construction: (pg. 126 -128)</p> <p>Squirrel cage induction motors are so-called because the shape of their rotor – the inner component connected to the output shaft – looks like a cage.</p> <p>These motors consist of stators(stationary) and rotors (rotational) motor components, respectively. The stator - the motor housing - contains windings of wire connected to an AC power source, and the rotor – the free moving rotor - interact with the stator's coils via electromagnetism. The electromagnetic field (EMF) generated in the stator induces an opposing EMF in the rotor and therefore creates rotational energy from electromagnetic induction.</p> <p>The reasons for having a skewed rotor is: (pg. 127)</p> <ul style="list-style-type: none"> ➤ Reduces magnetic hum ➤ Increase rotor resistance 	<p>Construction of 3-phase squirrel cage induction motor</p> 

Grade 1 november 2014 Electrical Technology

**Debatosh Guha,Badal
Chakraborty,Himadri Sekhar Dutta**



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Computer, Communication and Electrical Technology Debatosh Guha, Badal Chakraborty, Himadri Sekhar Dutta, 2017-03-16 The First International Conference on Advancement of Computer Communication and Electrical Technology focuses on key technologies and recent progress in computer vision information technology applications VLSI signal processing power electronics drives and application of sensors transducers etc Topics in this conference include Computer Science This conference encompassed relevant topics in computer science such as computer vision intelligent system networking theory and application of information technology Communication Engineering To enhance the theory technology of communication engineering ACCET 2016 highlighted the state of the art research work in the field of VLSI optical communication and signal processing of various data formatting Research work in the field of microwave engineering cognitive radio and networks are also included Electrical Technology The state of the art research topic in the field of electrical instrumentation engineering is included in this conference such as power system stability protection non conventional energy resources electrical drives and biomedical engineering Research work in the area of optimization and application in control measurement instrumentation are included as well E-Mobility M. Kathiresan, G. R. Kanagachidambaresan, Sheldon S. Williamson, 2021-12-01 The book provides easy interpretable explanations for the key technologies involved in Electric Vehicles and Hybrid Electric Vehicles The authors discuss the various electrical machines drives and controls used in EV and HEV The book provides a detailed coverage of Regenerative Braking Systems used in EV and HEV The book also illustrates the battery technology and battery management systems in EV and HEV This book is intended for academicians researchers and industrialists In addition this book has the following features Discusses the various Economic and Environmental Impact of Electric and Hybrid Electric Vehicles Discusses the role of Artificial Intelligence in Electric Hybrid Electric Vehicles Illustrates the concept of Vehicle to Grid Technology and the smart charging station infrastructure and issues involved in the same Elucidates the concept of Internet of Vehicles Presents the latest research and applications in alternate energy vehicles **The Handbook of Lithium-Ion Battery Pack Design** John T. Warner, 2015-05-23 The Handbook of Lithium Ion Battery Pack Design Chemistry Components Types and Terminology offers to the reader a clear and concise explanation of how Li ion batteries are designed from the perspective of a manager sales person product manager or entry level engineer who is not already an expert in Li ion battery design It will offer a layman s explanation of the history of vehicle electrification what the various terminology means and how to do some simple calculations that can be used in determining basic battery sizing capacity voltage and energy By the end of this book the reader has a solid understanding of all of the terminology around Li ion batteries and is able to do some simple battery calculations The book is immensely useful to beginning and experienced engineer alike who are moving into the battery field Li ion batteries are one of the most unique systems in automobiles today in that they combine multiple engineering

disciplines yet most engineering programs focus on only a single engineering field This book provides you with a reference to the history terminology and design criteria needed to understand the Li ion battery and to successfully lay out a new battery concept Whether you are an electrical engineer a mechanical engineer or a chemist this book helps you better appreciate the inter relationships between the various battery engineering fields that are required to understand the battery as an Energy Storage System Offers an easy explanation of battery terminology and enables better understanding of batteries their components and the market place Demonstrates simple battery scaling calculations in an easy to understand description of the formulas Describes clearly the various components of a Li ion battery and their importance Explains the differences between various Li ion cell types and chemistries and enables the determination which chemistry and cell type is appropriate for which application Outlines the differences between battery types e g power vs energy battery Presents graphically different vehicle configurations BEV PHEV HEV Includes brief history of vehicle electrification and its future

Power Integrity for Electrical and Computer Engineers J. Ted Dibene, II, David Hockanson, 2019-09-24 A professional guide to the fundamentals of power integrity analysis with an emphasis on silicon level power integrity Power Integrity for Electrical and Computer Engineers embraces the most recent changes in the field offers a comprehensive introduction to the discipline of power integrity and provides an overview of the fundamental principles Written by noted experts on the topic the book goes beyond most other resources to focus on the detailed aspects of silicon and optimization techniques in order to broaden the field of study This important book offers coverage of a wide range of topics including signal analysis EM concepts for PI frequency domain analysis for PI numerical methods overview for PI and silicon device PI modeling Power Integrity for Electrical and Computer Engineers examine platform technologies system considerations power conversion system level modeling and optimization methodologies To reinforce the material presented the authors include example problems This important book Includes coverage on convergence accuracy and error analysis and explains how these can be used to analyze power integrity problems Contains information for modeling the power converter from the PDN to the load in a full system level model Explores areas of device level modeling of silicon as related to power integrity Contains example word problems that are related to an individual chapter s subject Written for electrical and computer engineers and academics Power Integrity for Electrical and Computer Engineers is an authoritative guide to the fundamentals of power integrity and explores the topics of power integrity analysis power integrity analytics silicon level power integrity and optimization techniques

Graphs in VLSI Rassul Bairamkulov, Eby G. Friedman, 2022-11-28 Networks are pervasive Very large scale integrated VLSI systems are no different consisting of dozens of interconnected subsystems hundreds of modules and many billions of transistors and wires Graph theory is crucial for managing and analyzing these systems In this book VLSI system design is discussed from the perspective of graph theory Starting from theoretical foundations the authors uncover the link connecting pure mathematics with practical product development This book not only provides a review of established graph

theoretic practices but also discusses the latest advancements in graph theory driving modern VLSI technologies covering a wide range of design issues such as synchronization power network models and analysis and interconnect routing and synthesis Provides a practical introduction to graph theory in the context of VLSI systems engineering Reviews comprehensively graph theoretic methods and algorithms commonly used during VLSI product development process Includes a review of novel graph theoretic methods and algorithms for VLSI system design

Fuel Cells Detlef Stolten, Remzi C. Samsun, Nancy Garland, 2016-05-31 This ready reference is unique in collating in one scientifically precise and comprehensive handbook the widespread data on what is feasible and realistic in modern fuel cell technology Edited by one of the leading scientists in this exciting area the short uniformly written chapters provide economic data for cost considerations and a full overview of demonstration data covering such topics as fuel cells for transportation fuel provision codes and standards The result is highly reliable facts and figures for engineers researchers and decision makers working in the field of fuel cells

Future Communication Technology and Engineering Kennis Chan, 2015-04-06 This volume contains the papers presented at the 2014 International Conference on Future Communication Technology and Engineering FCTE2014 taking place in Shenzhen China from 16 17 November 2014 Communication technologies are developing quickly and there are more possibilities for future communication technologies provided by the achievements made rather than limitations At the convention innovative and inspiring ideas were presented certain controversial topics were discussed e g what are the most efficient convenient methods for information communication and what is the most probable prospect for future communication technology It is difficult to make any definite conclusions from these presentations and discussions but the desire and drive for improvement and development shown by the participants authors are surely remarkable and respectable In this book 70 papers are included chosen from hundreds of submissions contributed by scientists from various countries and regions after careful reading and discussing by a team of reviewers These papers cover almost every possible aspect of communication technology including communication systems automation and control engineering electrical engineering AI algorithms signal processing data mining and knowledge based systems

Smart Charging and Anti-Idling Systems Yanjun Huang, Soheil Mohagheghi Fard, Milad Khazraee, Hong Wang, Amir Khajepour, 2022-05-31 As public attention on energy conservation and emission reduction has increased in recent years engine idling has become a growing concern due to its low efficiency and high emissions Service vehicles equipped with auxiliary systems such as refrigeration air conditioning PCs and electronics usually have to idle to power them The number of service vehicles e g public school tour buses delivery refrigerator trucks police cars ambulances armed vehicles firefighter vehicles is increasing significantly with tremendous social development Therefore introducing new anti idling solutions is inevitably vital for controlling energy unsustainability and poor air quality There are a few books about the idling disadvantages and anti idling solutions Most of them are more concerned with different anti idling technologies and their effects on the society rather than

elaborating an anti idling system design considering different applications and limitations There is still much room to improve existing anti idling technologies and products In this book we took a service vehicle refrigerator truck as an example to demonstrate the whole process of designing optimizing controlling and developing a smart charging system for the anti idling purpose The proposed system cannot only electrify the auxiliary systems to achieve anti idling but also utilize the concepts of regenerative braking and optimal charging strategy to arrive at an optimum solution Necessary tools algorithms and methods are illustrated and the benefits of the optimal anti idling solution are evaluated *Communication, Management and Information Technology* Marcelo Sampaio de Alencar, 2016-11-03 Communication Management and Information Technology contains the contributions presented at the International Conference on Communication Management and Information Technology ICCMIT 2016 Cosenza Italy 26 29 April 2016 organized by the Universal Society of Applied Research USAR The book aims at researchers scientists engineers and scholar students interested or involved in Computer Science and Systems Communication and Management Project Management □ The Complete Process Vishwanath Murthy, This textbook covers the entire gamut of project scoping identification development and appraisal and is primarily designed to meet the requirements of postgraduate students of management and engineering education Researchers consultants policy makers and professionals in project management will find it a good body of knowledge as a reference source The objective of the book is to provide a multidisciplinary grounding to the readers so that they can develop all the skills and competencies required to view or manage the entire project management process as an integrated whole The book has been written in an easy to understand style and uses live case studies of renewable energy projects to illustrate the concepts so that the students readers understand them in the context of the real world Though based on renewable energy projects majority of the concepts explained in the book are applicable to other industrial projects equally detailed guidance and notes on this aspect is given appropriately in the book **Graphic Showbiz** Adwoa Serwaa Bonsu, 2010-01-28

Key Digital Trends Shaping the Future of Information and Management Science Lalit Garg, Dilip Singh Sisodia, Nishtha Kesswani, Joseph G. Vella, Imene Brigui, Sanjay Misra, Deepak Singh, 2023-05-15 This book proceedings of ISMS 2022 is intended to be used as a reference by students and researchers who collect scientific and technical contributions with respect to models tools technologies and applications in the field of information systems and management science This textbook shows how to exploit information systems in a technology rich management field The book introduces concepts principles methods and procedures that will be valuable to students and scholars in thinking about existing organization systems proposing new systems and working with management professionals in implementing new information systems

Gas Turbines for Electric Power Generation S. Can Gülen, 2019-02-14 In this essential reference both students and practitioners in the field will find an accessible discussion of electric power generation with gas turbine power plants using quantitative and qualitative tools Beginning with a basic discussion of thermodynamics of gas turbine cycles from a second

law perspective the material goes on to cover with depth an analysis of the translation of the cycle to a final product facilitating quick estimates In order to provide readers with the knowledge they need to design turbines effectively there are explanations of simple and combined cycle design considerations and state of the art performance prediction and optimization techniques as well as rules of thumb for design and off design performance and operational flexibility and simplified calculations for myriad design and off design performance The text also features an introduction to proper material selection manufacturing techniques and construction maintenance and operation of gas turbine power plants

Comprehensive Membrane Science and Engineering Enrico Drioli, Lidietta Giorno, Enrica Fontananova, 2017-07-20 Comprehensive Membrane Science and Engineering Second Edition Four Volume Set is an interdisciplinary and innovative reference work on membrane science and technology Written by leading researchers and industry professionals from a range of backgrounds chapters elaborate on recent and future developments in the field of membrane science and explore how the field has advanced since the previous edition published in 2010 Chapters are written by academics and practitioners across a variety of fields including chemistry chemical engineering material science physics biology and food science Each volume covers a wide spectrum of applications and advanced technologies such as new membrane materials e g thermally rearranged polymers polymers of intrinsic microporosity and new hydrophobic fluoropolymer and processes e g reverse electrodialysis membrane contractors membrane crystallization membrane condenser membrane dryers and membrane emulsifiers that have only recently proved their full potential for industrial application This work covers the latest advances in membrane science linking fundamental research with real life practical applications using specially selected case studies of medium and large scale membrane operations to demonstrate successes and failures with a look to future developments in the field Contains comprehensive cutting edge coverage helping readers understand the latest theory Offers readers a variety of perspectives on how membrane science and engineering research can be best applied in practice across a range of industries Provides the theory behind the limits advantages future developments and failure expectations of local membrane operations in emerging countries

Applied Technologies Miguel Botto-Tobar, Marcelo Zambrano Vizuete, Sergio Montes León, Pablo Torres-Carrión, Benjamin Durakovic, 2023-01-27 This three volume set CCIS 1755 1757 constitutes the refereed proceedings of the 4th International Conference on Applied Technologies ICAT 2022 held in Quito Ecuador in November 2022 The 112 full papers included in this book were carefully reviewed and selected from 415 submissions They were organized in topical sections as follows human computing and information science IT financial and business management

Proceedings of International Conference on Computational Intelligence Ritu Tiwari, Apoorva Mishra, Neha Yadav, Mario Pavone, 2021-10-01 The book presents high quality research papers presented at International Conference on Computational Intelligence ICCI 2020 held at Indian Institute of Information Technology Pune India during 12 13 December 2020 The topics covered are artificial intelligence neural network deep learning techniques fuzzy theory and systems rough

sets self organizing maps machine learning chaotic systems multi agent systems computational optimization ensemble classifiers reinforcement learning decision trees support vector machines hybrid learning statistical learning metaheuristics algorithms evolutionary and swarm based algorithms like genetic algorithms genetic programming differential evolution particle swarm optimization whale optimization spider monkey optimization firefly algorithm memetic algorithms And also machine vision Internet of Things image processing image segmentation data clustering sentiment analysis big data computer networks signal processing supply chain management web and text mining distributed systems bioinformatics embedded systems expert system forecasting pattern recognition planning and scheduling time series analysis human computer interaction web mining natural language processing multimedia systems and quantum computing

Entrepreneurship in Power Semiconductor Devices, Power Electronics, and Electric Machines and Drive Systems

Krishnan Ramu, 2020-12-07 Entrepreneurship in Power Semiconductor Devices Power Electronics and Electric Machines and Drive Systems introduces the basics of entrepreneurship and a methodology for the study of entrepreneurship in electrical engineering and other engineering fields Entrepreneurship is considered here in three fields of electrical engineering viz power semiconductor devices power electronics and electric machines and drive systems and their current practice It prepares the reader by providing a review of the subject matter in the three fields their current status in research and development with analysis aspect as needed thus allowing readers to gain self sufficiency while reading the book Each field s emerging applications current market and future market forecasts are introduced to understand the basis and need for emerging startups Practical learning is introduced in i power semiconductor devices entrepreneurship through the prism of 20 startups in detail ii power electronics entrepreneurship through 28 startup companies arranged under various application fields and iii electric machines and drive systems entrepreneurship through 15 startups in electromagnetic and 1 in electrostatic machines and drive systems The book i demystifies entrepreneurship in a practical way to equip engineers and students with entrepreneurship as an option for their professional growth pursuit and success ii provides engineering managers and corporate level executives a detailed view of entrepreneurship activities in the considered three fields that may potentially impact their businesses iii provides entrepreneurship education in an electrical engineering environment and with direct connection and correlation to their fields of study and iv endows a methodology that can be effectively employed not only in the three illustrated fields of electrical engineering but in other fields as well This book is for electrical engineering students and professionals For use in undergraduate and graduate courses in electrical engineering the book contains discussion questions exercise problems team and class projects all from a practical point of view to train students and assist professionals for future entrepreneurship endeavors *Supplemental Tables to the Annual Energy Outlook 2001* ,

Law and Economics of the Digital Transformation

Klaus Mathis, Avishalom Tor, 2023-06-02 This book pursues the questions from a broad range of law and economics perspectives Digital transformation leads to economic and social change

bringing with it both opportunities and risks This raises questions of the extent to which existent legal frameworks are still sufficient and whether there is a need for new or additional regulation in the affected areas new demands are made on the law and jurisprudence **Copyright Class Struggle** Hannibal Travis,2018-10-04 Employing law and philosophy of economics this book explores how copyright shapes ownership of ideas in the social media age

Unveiling the Magic of Words: A Overview of "**Grade 1november 2014 Electrical Technology**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Grade 1november 2014 Electrical Technology**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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