

N.B. : (1) Question No. 1 is compulsory.

(2) Attempt any four questions out of the remaining six questions.

(3) Assume suitable data if necessary with justification.

(4) Use legible handwriting.

1. (a) Draw SCR characteristics and explain significance of Latching and Holding current. 5
- (b) Compare series inverter with parallel inverter. 5
- (c) Explain two transistor analogy of SCR with necessary derivation of SCR current. 5
- (d) Explain important characteristics of an ideal OP-AMP. 5
2. (a) Explain working of a single phase full bridge inverter, derive output voltage equations (avg. and rms) equations of it and explain how it can be used as line-commutated inverter, with necessary wave-form. 5
- (b) A 3 ϕ full converter is supplied from a 3 ϕ , 440 V, 50 Hz mains, if the firing delay angle is 30°, then calculate output average and RMS voltage of the converter. 5
3. (a) Explain working of UJT-relaxation oscillator circuit with necessary waveforms. 10
- (b) Explain working of OP-AMP as an ADDER and SUBTRACTOR. 10
4. (a) With the help of neat block diagram explain 8085 microprocessor. 10
- (b) Solve following Boolean expressions. 5
 - (i) $F = (A+C)(A+D)(B+D)(B+C)$
 - (ii) $F = (B+D)(B+BC)(B+BC)$
- (c) Using K-Map reduce following boolean function and implement it using NAND gates $F(A,B,C) = \sum m(0,1,3,4,5,6)$. 5
5. (a) With the help of neat block diagram explain working of IC-555 timer and how can it be used as an astable multi-vibrator, with necessary waveforms ? 10
- (b) Explain working of a 1 ϕ Cycloconverter with necessary waveforms. 10
6. (a) Explain working of a single phase step-up chopper with output voltage derivation. 10
- (b) Explain speed control of a DC-shunt motor using armature voltage control method. 10
7. Write short notes on any two :- 20
 - (a) Illumination control using DIAC-TRIAC
 - (b) Comparison of IGBT with SCR
 - (c) Speed control of 3 ϕ induction motor
 - (d) Commutation of Thyristor.

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Power Electronics, Drives, and Advanced Applications Vinod Kumar,Ranjan Kumar Behera,Dheeraj Joshi,Ramesh Bansal,2020-03-27 Concern for reliable power supply and energy efficient system design has led to usage of power electronics based systems including efficient electric power conversion and power semiconductor devices This book provides integration of complete fundamental theory design simulation and application of power electronics and drives covering up to date subject components It contains twenty one chapters arranged in four sections on power semiconductor devices basic power electronic converters advanced power electronics converters power supplies electrical drives and advanced applications Aimed at senior undergraduate and graduate students in electrical engineering and power electronics including related professionals this book Includes electrical drives such as DC motor AC motor special motor high performance motor drives solar electrical hybrid vehicle and fuel cell drives Reviews advances in renewable energy technologies wind PV hybrid power systems and their integration Explores topics like distributed generation microgrid and wireless power transfer system Includes simulation examples using MATLAB Simulink and over four hundred solved unsolved and review problems

Introduction to Electrical Power and Power Electronics Mukund R. Patel,2012-12-10 Most traditional power systems textbooks focus on high voltage transmission However the majority of power engineers work in urban factories buildings or industries where power comes from utility companies or is self generated Introduction to Electrical Power and Power Electronics is the first book of its kind to cover the entire scope of electrical power and power electronics systems in one volume with a focus on topics that are directly relevant in power engineers daily work Learn How Electrical Power Is Generated Distributed and Utilized Composed of 17 chapters the book is organized into two parts The first part introduces aspects of electrical power that most power engineers are involved in during their careers including the distribution of power to load equipment such as motors via step down transformers cables circuit breakers relays and fuses For engineers working with standalone power plants it also tackles generators The book discusses how to design and operate systems for economic use of power and covers the use of batteries in greater depth than typically found in traditional power system texts Understand How Power Electronics Work in Modern Systems The second part delves into power electronics switches as well as the DC DC converters AC DC AC converters and frequency converters used in variable frequency motor drives It also discusses quality of power issues in modern power systems with many large power electronics loads A chapter on power converter cooling presents important interdisciplinary design topics Draw on the Author s Extensive Industry and Teaching Experience This timely book draws on the author s 30 years of work experience at General Electric Lockheed Martin and Westinghouse Electric and 15 years of teaching electrical power at the U S Merchant Marine Academy Designed for a one semester or two quarter course in electrical power and power electronics it is also ideal for a refresher course or as a one stop reference for industry professionals

Energy Processing and Smart Grid James A. Momoh,2018-06-13 The first

book in the field to incorporate fundamentals of energy systems and their applications to smart grid along with advanced topics in modeling and control This book provides an overview of how multiple sources and loads are connected via power electronic devices Issues of storage technologies are discussed and a comparison summary is given to facilitate the design and selection of storage types The need for real time measurement and controls are pertinent in future grid and this book dedicates several chapters to real time measurements such as PMU smart meters communication scheme and protocol and standards for processing and controls of energy options Organized into nine sections Energy Processing for the Smart Grid gives an introduction to the energy processing concepts topics needed by students in electrical engineering or non electrical engineering who need to work in areas of future grid development It covers such modern topics as renewable energy storage technologies inverter and converter power electronics and metering and control for microgrid systems In addition this text Provides the interface between the classical machines courses with current trends in energy processing and smart grid Details an understanding of three phase networks which is needed to determine voltages currents and power from source to sink under different load models and network configurations Introduces different energy sources including renewable and non renewable energy resources with appropriate modeling characteristics and performance measures Covers the conversion and processing of these resources to meet different DC and AC load requirements Provides an overview and a case study of how multiple sources and loads are connected via power electronic devices Benefits most policy makers students and manufacturing and practicing engineers given the new trends in energy revolution and the desire to reduce carbon output Energy Processing for the Smart Grid is a helpful text for undergraduates and first year graduate students in a typical engineering program who have already taken network analysis and electromagnetic courses

Technology Road Mapping for Quantum Computing and Engineering Mishra, Brojo Kishore, 2022-03-25 Quantum computing is radically different from the conventional approach of transforming bit strings from one set of zeros and ones to another With quantum computing everything changes The physics used to understand bits of information and the devices that manipulate them are vastly different Quantum engineering is a revolutionary approach to quantum technology Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts engineering technologies operations and applications from the basics to future advancements Covering topics such as machine learning quantum software technology and technology road mapping this book is an excellent resource for data scientists engineers students and professors of higher education computer scientists researchers and academicians [Questions and answers for job interview Offshore Oil & Gas Rigs](#) Petrogav International Oil & Gas Training Center, 2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to

be able to answer them smoothly and without hesitation This eBook contains 288 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *Smart Technologies, Systems and Applications* Fabián R. Narváez,Diego F. Vallejo,Paulina A. Morillo,Julio R. Proaño,2020-04-30 This book constitutes refereed proceedings of the First International Conference on Smart Technologies Systems and Applications held in Quito Ecuador in December 2019 The 27 full papers and 3 short papers presented were carefully reviewed and selected from 90 submissions The papers of this volume are organized in topical sections on smart technologies smart systems smart trends and applications **Mechatronics 2017** Tomáš Březina,Ryszard Jabłoński,2017-08-16 This book presents nearly 90 carefully selected contributions at the 12th International Conference Mechatronics which took place in Brno Czech Republic on 6 8 September 2017 Reflecting the most progressive and constantly changing areas of mechatronics these proceedings includes papers concerning modeling and simulation automatic control robotics sensors and actuators electrical machines and energy harvesting It not only offers inspiration but also deepens readers interdisciplinary and integrated understanding of modern engineering The book is intended for experts in the integration of electronic mechanical control and computer sciences *Resonant Power Converters* Marian K. Kazimierczuk,Dariusz Czarkowski,2012-11-07 This book is devoted to resonant energy conversion in power electronics It is a practical systematic guide to the analysis and design of various dc dc resonant inverters high frequency rectifiers and dc dc resonant converters that are building blocks of many of today s high frequency energy processors Designed to function as both a superior senior to graduate level textbook for electrical engineering courses and a valuable professional reference for practicing engineers it provides students and engineers with a solid grasp of existing high frequency technology while acquainting them with a number of easy to use tools for the analysis and design of resonant power circuits Resonant power conversion technology is now a very hot area and in the center of the renewable energy and energy harvesting technologies **Shipboard Propulsion, Power Electronics, and Ocean Energy** Mukund Patel,2012-02-17 Shipboard Propulsion Power Electronics

and Ocean Energy fills the need for a comprehensive book that covers modern shipboard propulsion and the power electronics and ocean energy technologies that drive it With a breadth and depth not found in other books it examines the power electronics systems for ship propulsion and for extracting ocean ene Basic Electronics & Communication Engineering: Electronics & Communication Short Questions and Answers Yashwant Kumar Parte,2022-08-25 The book Basics of Electronics and Communication Engineering Short Question and Answers is written to cater the needs of students for review purpose at the Engineering or polytechnic level of Electronics and Communication Telecommunication Engineering streams The basic principles of the book are learning and motivation Easy explanation of practice problems and short answer type review questions are the principal features of this book **100 technical questions and answers for job interview Offshore Drilling Rigs** Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **200 technical questions and answers for job interview Offshore Oil & Gas Platforms** Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 200 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **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 *CYBERWARFARE SOURCEBOOK* A. Kiyuna,L. Conyers,2015-04-14 Concerning application layer DDoS attacks Bureau 121 camfecting cyber attack threat trends ECHELON Fifth Dimension Operations Intervasion of the UK Military digital complex PLA Unit 61398 Stuxnet and more

Semiconductor Devices and Technologies for Future Ultra Low Power Electronics D. Nirmal,J. Ajayan,Patrick J. Fay,2021-12-09 This book covers the fundamentals and significance of 2 D materials and related semiconductor transistor technologies for the next generation ultra low power applications It provides comprehensive coverage on advanced low power transistors such as NCFETs FinFETs TFETs and flexible transistors for future ultra low power applications owing to their better subthreshold swing and scalability In addition the text examines the use of field effect transistors for biosensing applications and covers design considerations and compact modeling of advanced low power transistors such as NCFETs FinFETs and TFETs TCAD simulation examples are also provided FEATURES Discusses the latest updates in the field of ultra low power semiconductor transistors Provides both experimental and analytical solutions for TFETs and NCFETs Presents synthesis and fabrication processes for FinFETs Reviews details on 2 D materials and 2 D transistors Explores the application of FETs for biosensing in the healthcare field This book is aimed at researchers professionals and graduate students in electrical engineering electronics and communication engineering electron devices nanoelectronics and nanotechnology microelectronics and solid state circuits *The Art of Wireless Sensor Networks* Habib M. Ammari,2013-12-13 During the last one and a half decades wireless sensor networks have witnessed significant growth and tremendous development in both academia and industry The Art of Wireless Sensor Networks Volume 1 Fundamentals focuses on the fundamentals concepts in the design analysis and implementation of wireless sensor networks It covers the various layers of the lifecycle of this type of network from the physical layer up to the application layer Its rationale is that the first volume covers contemporary design issues tools and protocols for radio based two dimensional terrestrial sensor networks All the book chapters in this volume include up to date research work spanning various classic facets of the physical properties and functional behavior of wireless sensor networks including physical layer medium access control data routing topology management mobility management localization task management data management data gathering security middleware sensor technology standards and operating systems This book will be an excellent source of information for both senior undergraduate and graduate students majoring in computer science computer engineering electrical engineering or any related discipline In addition computer scientists researchers and practitioners in both academia and industry will find this book useful and interesting *Questions and answers for job interview Offshore Oil & Gas Platforms* Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these

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