

- Q.28. Deduce Ohm's law from elementary ideas and hence write an expression for resistance and resistivity.
- Q.29. State Biot-Savart law and apply it to find the magnetic field due to a circular loop carrying current at a point on the axis.

OR

What is radial magnetic field? What is its importance in a moving coil galvanometer? How is a radial magnetic field achieved in moving coil galvanometers?

- Q.30. Deduce an expression for the mutual inductance of two long co-axial solenoids but having different radii and different number of turns.
- Q.31. Find the expression for the magnetic moment when an electron revolves at a speed ' v ', around an orbit of radius ' r ' in hydrogen atom hence define Bohr's magneton.

SECTION - E

- Q.32. Two straight long parallel conductors carry currents I_1 and I_2 in the opposite direction. Deduce the expression for the force per unit length between them. Hence define 1 ampere current.

OR

A point charge q moving with speed v enters a uniform magnetic field B that is acting into the plane of the paper as shown.

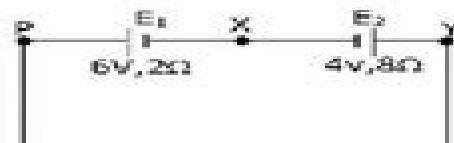


- Write the equation of force on a charge particle in a magnetic field.
 - What is the path followed by the charge q and in which plane does it move?
 - How does the path followed by the charge get affected if its velocity has a component parallel to B ?
 - If an electric field E is also applied such that the particle continues moving along the original straight-line path, find the magnitude and direction of the electric field E ?
- Q.33. What is a Wheatstone bridge? Deduce the condition for which Wheatstone bridge is balanced? Write one application of Wheatstone bridge.

OR

State Kirchhoff's current law and voltage law.

A cell E_1 of EMF 6 volt and internal resistance 2 ohm is connected with another cell E_2 of EMF 4 volt and internal resistance 8 ohm as shown in the figure. Find the potential difference across points X and Y.



- Q.34. Derive an expression for the capacitance of a parallel plate capacitor with (a) a dielectric slab (b) a metallic plate in between the plates of the capacitor.

OR

Define electric potential at a point. Derive an expression for the electric potential at a point due to a point charge. Does the potential increase or decrease in the direction of electric field.



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Induction Motor Fault Diagnosis Subrata Karmakar, Surajit Chattopadhyay, Madhuchhanda Mitra, Samarjit

Sengupta, 2016-04-04 This book covers the diagnosis and assessment of the various faults which can occur in a three phase induction motor namely rotor broken bar faults rotor mass unbalance faults stator winding faults single phasing faults and crawling Following a brief introduction the second chapter describes the construction and operation of an induction motor then reviews the range of known motor faults some existing techniques for fault analysis and some useful signal processing techniques It includes an extensive literature survey to establish the research trends in induction motor fault analysis Chapters three to seven describe the assessment of each of the five primary fault types In the third chapter the rotor broken bar fault is discussed and then two methods of diagnosis are described i diagnosis of the fault through Radar analysis of stator current Concordia and ii diagnosis through envelope analysis of motor startup current using Hilbert and Wavelet Transforms In chapter four rotor mass unbalance faults are assessed and diagnosis of both transient and steady state stator current has been analyzed using different techniques If both rotor broken bar and rotor mass unbalance faults occur simultaneously then for identification an algorithm is provided in this chapter Chapter five considers stator winding faults and five different analysis techniques chapter six covers diagnosis of single phasing faults and chapter seven describes crawling and its diagnosis Finally chapter eight focuses on fault assessment and presents a summary of the book together with a discussion of prospects for future research on fault diagnosis

James Joyce, Science, and Modernist Print Culture

Jeffrey S. Drouin, 2014-12-05 This book makes an important intervention in the ongoing debates about modernism science and the divisions of early Twentieth Century print culture In order to establish Joyce s place in the nexus of modernism and scientific thought Drouin uses the methods of periodical studies and textual criticism to examine the impact of Einstein s relativity theories on the development of Ulysses 1922 and Finnegans Wake 1939 Looking at experiments with space time motion and perspective it rigorously surveys discourse of science and the novel in the print culture networks connected to Joyce with concrete analysis of avant garde magazines newspapers popular science books BBC pamphlets and radio broadcasts between 1914 and 1939 These sources elucidate changes that Joyce made to the manuscripts typescripts and page proofs of certain episodes of his final two novels The new evidence establishes for the first time the nature of the material link between Joyce and non technical science and the manner in which Ulysses and Finnegans Wake owe their structure and meaning to the humanistic issues associated with science during the wartime and inter war years In examining the relationships between Joyce s later work and the popular science industry the book elucidates the often conflicting attitudes toward science in inter war British print culture filling in a piece of the puzzle that is modernism s relationship to the new physics and simultaneously the history of the novel

Research and Applications in Global Supercomputing

Segall, Richard S., Cook, Jeffrey S., Zhang, Qingyu, 2015-01-31 Rapidly generating and processing large amounts of data

supercomputers are currently at the leading edge of computing technologies Supercomputers are employed in many different fields establishing them as an integral part of the computational sciences Research and Applications in Global Supercomputing investigates current and emerging research in the field as well as the application of this technology to a variety of areas Highlighting a broad range of concepts this publication is a comprehensive reference source for professionals researchers students and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines

Measurement, Instrumentation, and Sensors Handbook John G. Webster, Halit Eren, 2017-12-19 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Electromagnetic Optical Radiation Chemical and Biomedical Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement provides readers with a greater understanding of advanced applications

150 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 150 questions and answers for job interview and as a BONUS web addresses to 220 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

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questions have come from the chapter The book is further empowered with 5 Practice Sets based on the exact pattern of latest AFCAT exams The book also provides an update on Current Affairs [DRHA2014 Proceedings / Full Papers](#) Anastasios Maragiannis,2015-08-12 This publication includes a selection of peer reviewed academic papers The FULL PAPER Proceedings publication for the DRH2014 conference showcase up to date discussions dynamic debates and innovative keynotes and aims to open a discussion on defining digital communication futures as a theme that connects interdisciplinary practices focusing particularly on issues of communication and its impact on creative industries *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 [Oxford University Gazette](#) University of Oxford,1933 **273 technical questions and answers for job interview Offshore Oil & Gas Platforms** 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 *Thiol-based redox homeostasis and signalling* Francisco J. Cejudo,Andreas J. Meyer,Jean-Philippe Reichheld,Nicolas Rouhier,Jose A. Traverso,2014-09-24 In contrast to the situation in heterotrophic organisms plant genomes code for a significantly larger number of oxidoreductases such as thioredoxins TRXs and glutaredoxins GRXs These proteins provide a biochemical mechanism that allows the rapid and reversible activation or deactivation of protein functions in response to changing environmental conditions as oxidative conditions caused by excessive photosynthesis Indeed owing to the fact that cysteines are sensitive to oxidation TRXs and GRXs play an essential role in controlling the redox state of protein thiol groups These redox dependent post translational modifications have proven to be critical for many cellular functions constituting regulatory signalling or protective mechanisms The articles contained in this Research Topic provide timely overviews and new insights into thiol dependent redox regulation mechanisms with a

focus on TRX and GRX based reduction systems in plants The different contexts discussed take into account physiological developmental and environmental conditions **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

Handbook of the Politics of the Arctic Leif Christian Jensen,Geir Hønneland,2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geo politics and international law this Handbook offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries *Innovative Security Solutions for Information Technology and Communications*

Ion Bica,David Naccache,Emil Simion,2016-01-14 This book constitutes the thoroughly refereed post conference proceedings of the 8th International Conference on Security for Information Technology and Communications SECITC 2015 held in Bucharest Romania in June 2015 The 17 revised full papers were carefully reviewed and selected from 36 submissions In addition with 5 invited talks the papers cover topics such as Cryptographic Algorithms and Protocols Security Technologies for IT C Information Security Management Cyber Defense and Digital Forensics *River Flow 2014*

Anton J. Schleiss,Giovanni de Cesare,Mario J. Franca,Michael Pfister,2014-08-12 The behaviour of river systems is a result of the complex interaction between flow sediments morphology and habitats Furthermore rivers are often used as a source of water supply and energy production as well as a waterway for transportation The main challenge faced by river engineers today in collaboration with environmental and ecological scientists is to restore the channelized rivers under the constraints of high urbanization and limited space as well as sustainable water use During the seventh International Conference on Fluvial Hydraulics River Flow 2014 at cole Polytechnique F d rale de Lausanne EPFL Switzerland scientists and professionals from all over the world addressed this challenge and exchanged their knowledge regarding fluvial hydraulics and river morphology This book comprises the proceedings of the high quality contributions of the participants which reflect the state of the art in the fields of river hydrodynamics morphodynamics sediment transport river engineering and restoration The conference was organized under the auspices of the Committee on Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR Past River Flow conferences have witnessed a significant increase in

participation of our community of river engineers and researchers confirming the need for such a forum **Practical Food Safety** Rajeev Bhat,Vicente M. Gómez-López,2014-06-23 The past few years have witnessed an upsurge in incidences relating to food safety issues which are all attributed to different factors Today with the increase in knowledge and available databases on food safety issues the world is witnessing tremendous efforts towards the development of new economical and environmentally friendly techniques for maintaining the quality of perishable foods and agro based commodities The intensification of food safety concerns reflects a major global awareness of foods in world trade Several recommendations have been put forward by various world governing bodies and committees to solve food safety issues which are all mainly targeted at benefiting consumers In addition economic losses and instability to a particular nation or region caused by food safety issues can be huge Various non dependent risk factors can be involved with regard to food safety in a wide range of food commodities such as fresh fruits vegetables seafood poultry meat and meat products Additionally food safety issues involves a wide array of issues including processed foods packaging post harvest preservation microbial growth and spoilage food poisoning handling at the manufacturing units food additives presence of banned chemicals and drugs and more Rapid change in climatic conditions is also playing a pivotal role with regard to food safety issues and increasing the anxiety about our ability to feed the world safely Practical Food Safety Contemporary Issues and Future Directions takes a multi faceted approach to the subject of food safety covering various aspects ranging from microbiological to chemical issues and from basic knowledge to future perspectives This is a book exclusively designed to simultaneously encourage consideration of the present knowledge and future possibilities of food safety This book also covers the classic topics required for all books on food safety and encompasses the most recent updates in the field Leading researchers have addressed new issues and have put forth novel research findings that will affect the world in the future and suggesting how these should be faced This book will be useful for researchers engaged in the field of food science and food safety food industry personnel engaged in safety aspects and governmental and non governmental agencies involved in establishing guidelines towards establishing safety measures for food and agricultural commodities **PEM Electrolysis for Hydrogen Production** Dmitri

Bessarabov,Haijiang Wang,Hui Li,Nana Zhao,2016-02-03 An ever increasing dependence on green energy has brought on a renewed interest in polymer electrolyte membrane PEM electrolysis as a viable solution for hydrogen production While alkaline water electrolyzers have been used in the production of hydrogen for many years there are certain advantages associated with PEM electrolysis and its relevan **Science and Art** Antonio Sgamellotti,Brunetto Giovanni

Brunetti,Costanza Miliani,2015-11-09 Science and art are increasingly interconnected in the activities of the study and conservation of works of art Science plays a key role in cultural heritage from developing new analytical techniques for studying the art to investigating new ways of preserving the materials for the future For example high resolution multispectral examination of paintings allows art historians to view underdrawings barely visible before while the use of non

invasive and micro sampling analytical techniques allow scientists to identify pigments and binders that help art conservators in their work. It also allows curators to understand more about how the artwork was originally painted. Through a series of case studies written by scientists together with art historians, archaeologists and conservators, *Science and Art: The Painted Surface* demonstrates how the cooperation between science and humanities can lead to an increased understanding of the history of art and to better techniques in conservation. The examples used in the book cover paintings from ancient history, Renaissance, modern and contemporary art belonging to the artistic expressions of world regions from the Far East to America and Europe. Topics covered include the study of polychrome surfaces from pre-Columbian and medieval manuscripts, the revelation of hidden images below the surface of Van Gogh paintings and conservation of acrylic paints in contemporary art. Presented in an easily readable form for a large audience, the book guides readers into new areas uncovered by the link between science and art. The book features contributions from leading institutions across the globe including the Metropolitan Museum of Art, New York Art Institute of Chicago, Getty Conservation Institute, Opificio delle Pietre Dure, Firenze, National Gallery of London, Tate Britain, Warsaw Academy of Fine Art and the National Gallery of Denmark, as well as a chapter covering the Thangka paintings by Nobel Prize winner Richard Ernst.

Technical questions and answers for job interview Offshore Drilling Platforms PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies. From start to finish you will see a general prognosis of the drilling process. If you are new to the oil gas industry you will enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil gas person you will enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore drilling platforms. It is intended also for non-drilling personnel who work in the offshore drilling exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations.

Refined Neutrosophy and Lattices vs. Pair Structures and YinYang Bipolar Fuzzy Set

Florentin Smarandache, In this paper we present the lattice structures of neutrosophic theories. We prove that Zhang's YinYang bipolar fuzzy set is a subclass of the Single Valued bipolar neutrosophic set. Then we show that the pair structure is a particular case of refined neutrosophy and the number of types of neutralities, sub-indeterminacies may be any finite or infinite number.

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