

- 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

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

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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 **DRHA2014 Proceedings / Full Papers** Anastasios

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3D Electrodes Cinzia Da Vià, Gian-Franco Dalla Betta, Sherwood Parker, 2019-01-17 Written by the leading names in this field this book introduces the technical properties design and fabrication details measurement results and applications of three dimensional silicon radiation sensors Such devices are currently used in the ATLAS experiment at the European Centre for Particle Physics CERN for particle tracking in high energy physics These sensors are the radiation hardest devices ever fabricated and have applications in ground breaking research in neutron detection medical dosimetry and space technologies and more Chapters explore the essential features of silicon particle detectors interactions of radiation with matter radiation damage effects and micro fabrication in addition to a providing historical overview of the field This book will be a key reference for students and researchers working with sensor technologies Features The first book dedicated to this unique and growing subject area which is also widely applicable in high energy physics medical physics space science and beyond Authored by Sherwood Parker the inventor of the concept of 3D detectors Cinzia Da Vi who has brought 3DSi technology to application and Gian Franco Dalla Betta a leading figure in the design and fabrication technology of these devices Explains to non experts the essential features of silicon particle detectors interactions of radiation with matter radiation damage effects and micro fabrication

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

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Nanomedicine, Volume I Robert A. Freitas,2024-12-06 Molecular nanotechnology has been defined as the three dimensional positional control of molecular structure to create materials and devices to molecular precision The human body is comprised of molecules hence the availability of molecular nanotechnology will permit dramatic progress in human medical services More than just an extension of molecular medicine nanomedicine will employ molecular machine systems to address medical problems and will use molecular knowledge to maintain and improve human health at the molecular scale Nanomedicine will have extraordinary and far reaching implications for the medical profession for the definition of disease

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