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 I₁ and I₂ 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.

- (a) Write the equation of force on a charge particle in a magnetic field.
- (b) What is the path followed by the charge q and in which plane does it move?

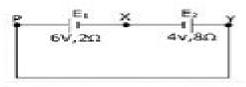


- (c) How does the path followed by the charge get affected if its velocity has a component parallel to B?
- (d) If an electric field E is also applied such that the particle continues moving along the original straight-line path, find the magnitude and direction of the electric field E?
- Q.33. What 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 E₁ of EMF 6 volt and internal resistance 2 ohm is connected with another cell E₂ 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 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

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