(Pages 2)

Name Akhil Reg. No. MIRE LES 003

# FIFTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, DECEMBER 2008

#### EE 04 502-ELECTROMAGNETIC FIELD THEORY

(2004 Admissions)

Time: Three Hours

Maximum: 100 Marks

#### Answer all questions.

- I. (a) State and explain Gauss's law in differential form.
  - (b) Define the term potential and establish the gradient relationship between potential and electric field intensity.
  - (c) What is Ampere's circuit law? Explain its application.
  - (d) Derive the integral form of Faraday's law of electromagnetic induction.
  - (e) Explain the significance of displacement current.
  - (f) State and prove poynting theorem.
  - (g) Explain with necessary theory the construction of Smith chart.
  - (h) Derive an expression for the characteristic impedance of a transmission line.

 $(8 \times 5 = 40 \text{ marks})$ 

II. (a) Transform the vector  $4\alpha x - 2\alpha y - 4\alpha x$  into spherical coordinates at a point p(x = -2, y = -3, x = 4).

(8 marks)

(b) Derive an expression for electro static energy stored in a spherical capacitor.

(7 marks)

Or

(c) Given the electric field intensity  $E = \frac{10}{x^2 + y^2} (xa_x + ya_y)$ . Let the potential be 10v at (3, 4, 5). Find v at (6, -8, 7).

(7 marks)

(d) Derive an expression for potential and electric field intensity at a point due to a dipole.

(8 marks)

# **Electromagnetic Theory Question Paper Regulation 2008**

Stephen F. Bush

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Furthermore the author provides the reader with a fundamental understanding of both power systems and communication networking It shows the complexity and operational requirements of the evolving power grid the so called smart grid to the communication networking engineer and similarly it shows the complexity and operational requirements for communications to the power systems engineer The book is divided into three parts Part One discusses the basic operation of the electric power grid covering fundamental knowledge that is assumed in Parts Two and Three Part Two introduces communications and networking which are critical enablers for the smart grid It also considers how communication and networking will evolve as technology develops This lays the foundation for Part Three which utilizes communication within the power grid Part Three draws heavily upon both the embedded intelligence within the power grid and current research anticipating how and where computational intelligence will be implemented within the smart grid Each part is divided into chapters and each chapter has a set of questions useful for exercising the readers understanding of the material in that chapter Key Features Bridges the gap between power systems and communications experts Addresses the smart grid from generation to consumption both as it is planned today and how it will likely evolve tomorrow Explores the smart grid from the perspective of traditional power systems as well as from communications Discusses power systems communications and machine learning that all define the smart grid It introduces the new field of power system information theory The Philosopher's **Index** ,2008 Vols for 1969 include a section of abstracts International Aerospace Abstracts ,1975 Films and Other **Materials for Projection** Library of Congress, 1963 **Electromagnetic Theory Questions and Answers PDF** Arshad Igbal, The Electromagnetic Theory Quiz Questions and Answers PDF Electromagnetic Theory Competitive Exam Questions Chapter 1 4 Practice Tests Class 8 12 Electronics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Electromagnetic Theory Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Electromagnetic Theory Quiz PDF book helps to practice test questions from exam prep notes The Electromagnetic Theory Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Electromagnetic Theory Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Electrical properties of dielectric electrical properties of matter metamaterials time varying and harmonic electromagnetic fields tests for college and university revision quide Electronics Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Electromagnetic Theory Interview Questions Chapter 1 4 PDF book includes high school question papers to review practice tests for exams Electromagnetic Theory Practice Tests a textbook s revision guide with chapters tests for NEET Jobs Entry Level competitive exam Electromagnetic Theory Questions Bank Chapter 1 4 PDF covers terminology definitions in self assessment workbook from electronics engineering textbook and practical eBook chapter wise as Chapter 1 Electrical Properties of Dielectric Questions Chapter 2 Electrical Properties of

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