

**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 × 5 = 40 marks)

- II. (a) Transform the vector $4xz - 2yz - 4xz$ into spherical coordinates at a point

$$p(x = -2, y = -3, z = 4).$$

(8 marks)

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

(7 marks)

Or

- (c) Given the electric field intensity $E = \frac{10}{x^2 + y^2} (x\alpha_x + y\alpha_y)$. 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

Michael Hoelscher



Electromagnetic Theory Question Paper Regulation 2008:

Bridging Circuits and Fields Alexander I. Petroianu, 2021-11-29 Energy and power are fundamental concepts in electromagnetism and circuit theory as well as in optics signal processing power engineering electrical machines and power electronics However in crossing the disciplinary borders we encounter understanding difficulties due to 1 the many possible mathematical representations of the same physical objects and 2 the many possible physical interpretations of the same mathematical entities The monograph proposes a quantum and a relativistic approach to electromagnetic power theory that is based on recent advances in physics and mathematics The book takes a fresh look at old debates related to the significance of the Poynting theorem and the interpretation of reactive power Reformulated in the mathematical language of geometric algebra the new expression of electromagnetic power reflects the laws of conservation of energy momentum in fields and circuits The monograph offers a mathematically consistent and a physically coherent interpretation of the power concept and of the mechanism of power transmission at the subatomic mesoscopic level The monograph proves paraphrasing Heaviside that there is no finality in the development of a vibrant discipline power theory

Electromagnetic Field Theories of Consciousness: Opportunities and Obstacles Tam Hunt, Jonathan Schooler, John Joe McFadden, Arnaud Delorme, Colin G. Hales, Mostyn Jones, Marissa Ericson, 2024-03-27 This new Research Topic is in part a celebration of the 30th anniversary of the game changing neural correlates of consciousness concept first proposed as part of Crick and Koch's 1990 neurobiological theory of consciousness After thirty years of research and theory building scholars in the science of consciousness are perhaps not much closer to a widely accepted theory of consciousness

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