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ANTENNA BASED VIVA INTERVIEW QUESTION AND ANSWERSIntroduction to antennas and wave propagation by Prof. Gilbert KARUNYA University **Antenna and Wave propagation important questions | Antenna and Wave propagation mcq | Part-1 Radio Navigation – Radio Wave Propagation Antenna \u0026amp; Wave Propagation Questions Part 3 Examples of Antenna**

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Antennas and Wave Propagation Viva Short Questions and ...

An antenna is an electrical conductor or system of conductors. Wave propagation is any of the ways in which waves travel. Having covered the process in class these past weeks you are now well capable of taking up the quiz below with ease. Give it a try and share your score.

Antenna And Wave Propagation Questions! Trivia Quiz ...

ANTENNA and WAVE PROPAGATION Objective Questions and Answers :-1. What is the wavelength of Super high frequency (SHF) especially used in Radar & satellite communication? A. 1 m

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– 10 m B. 1 cm – 10 cm C. 10 cm – 1 m D. 0.1 cm – 1 cm Ans: 1 cm – 10 cm
2. Which among the following is an application of high frequency? A. SONAR

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4.HORN ANTENNA : Horn antenna is a wave guide of different cross section which flared (or) tapered into large opening is called as the horn antenna . One end is excited and another end is opened.When a wave guide is used as a antenna it cannot radiates due to the mismatch of impedance wit free space .

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39) After which phenomenon/phenomena do the waves arrive at the receiving antenna in ionospheric propagation? a. Reflection or Scattering b. Refraction c. Defraction d. All of the above.

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ANSWER: Reflection or Scattering. 40) By which name/s is an ionospheric propagation, also known as? a. Sea wave propagation b. Ground wave propagation

Multiple Choice Questions and Answers on Antenna & Wave ...

Q17. According to Webster's dictionary, what is an antenna? a) Impedance matching device. b) Sensor of electromagnetic waves. c) Transducer between guided wave & free space wave. d) Metallic device for radiating or receiving radio waves . Q18. F2 layer of appleton region acts as a significant reflecting medium for _____ frequency radio waves. a) Low

Antenna and Wave Propagation 4 | Electronic Engineering ...

Question 68. Define Tropospheric Wave? Answer : Waves that

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arrive at the receiver after reflection from the troposphere region is called Tropospheric wave (i.e. 10 Km from Earth surface). Question 69. Define Ground Wave? Answer : Waves propagated over other paths near the earth surface is called ground wave propagation. Question 70. What Are ...

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UNIT VIII Wave Propagation – II: Antenna and wave propagation pdf; Sky Wave Propagation — Introduction. Structure of ionosphere, Refraction and Reflection of Sky Waves by ionosphere, Ray Path, Critical Frequency, MUF, LUF, OF, Virtual Height and Skip Distance. Relation between and Skip Distance, Multi-hop Propagation. Energy Loss in ionosphere.

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Ground wave propagation of the wave follows the contour of earth. Such a wave is called as direct wave. The wave sometimes bends due to the Earth's magnetic field and gets reflected to the receiver. Such a wave can be termed as reflected wave. The above figure depicts ground wave propagation. The wave when propagates through the Earth's ...

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Antenna Theory - Types of Propagation - Tutorialspoint

This is the Multiple Choice Questions in Chapter 15: Radio-Wave Propagation from the book Electronic Communication Systems by Roy Blake. If you are looking for a reviewer in Communications Engineering this will definitely help. I can assure you that this will be a great help in reviewing the book in preparation for your Board Exam.

Blake: MCQ in Radio-Wave Propagation • Pinoybix Engineering

passing radio wave will bend in an ionospheric layer is directly related to the intensity of ionization in that layer, and to the frequency of the radio wave. A triangle may be used to portray the cross-sectional path of ionospheric radio-wave travel, as shown in

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Fig 1, a highly simplified picture of what happens in propagation of radio waves.

Antenna Height and Communications Effectiveness

propagation delay of a year or more and the costs of installing the remote station. The receiving properties of antennas are characterized by the antenna affective area $A(f,T,I)$, where the available power at the output of the receiving antenna $P_r(f)$ is the product of

CHAPTER 3: ANTENNAS - MIT OpenCourseWare

ANTENNAS AND WAVE PROPAGATION OBJECTIVES UNIT

I ANTENNA FUNDAMENTALS: Introduction, Radiation

Mechanism –single wire, 2 wire, dipoles, Current Distribution on a

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thin wire antenna. Antenna Parameters - Radiation Patterns, Patterns in Principal Planes, Main Lobe and Side Lobes, Beamwidths, Polarization, Beam Area, ...

The book is primarily designed to cater to the needs of undergraduate and postgraduate students of Electronics and Communication Engineering and allied branches. It also caters for fundamental requirements of professionals working on design and development of antenna and wave propagation related equipment either in research laboratories or industries or academic institutions elsewhere. The book has been written with intent to grasp the basic understanding of theoretical as well as practical aspects of

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electromagnetic wave propagation and antenna engineering. The text has been aptly scripted considering the requirements of average students who can easily grasp and comprehend the basics of wave propagation and radiation mechanism of varieties of antennas coupled with their critical functionalities, utilities, advantages/disadvantages without any external assistance of teachers or other reference books. The book broaches very well on practical methods of parametric measurements of antenna with right measuring test equipment and associated tools. The last chapter of the book is dedicated to advance technology adopted in design and development of modern antenna. Key features

- A fairly large number of well labelled diagrams to provide practical understanding of the concepts.
- The placement of numericals at appropriate places develops confidence among readers and enthuses them

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further to read in depth to crack any regular or competitive examinations. • Chapter summary highlights important points for quick recap and revision before examination. • Well-crafted multiple choice questions with answers at the end of each chapter to stimulate thought process and prepare better for viva-voce and competitive examinations. • Appropriate number of unsolved numerical problems with answers to improve problem solving skill of students.

Discusses general concepts and illustrates them with specific examples and references from a variety of antenna systems. This title covers contents related to antenna arrays. It examines more than 100 common antenna working behaviour questions. It clarifies what you need to know about antenna arrays in a 3D manner and

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various arrangements.

This text book on "Antennas and Radio-wave Propagation" describes the theory of various types of antennas that are in current use and the way in which the radiated waves get propagated through space. The theory has been written in a simple and easy-to-understand language. Lots of worked-out examples as well as diagrams in 2- D and 3-D have been included to illustrate the principles clearly. It is hoped that these features help the students to grasp the theories involved easily. Features Provided solid grasp of the subject. Every concept is explained in detail with 2 dimension or 3 dimension figures wherever necessary. Every chapter is fortified

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with lots of worked examples. Each chapter ends with review questions and exercise problems to allow the student to test their understanding of the material covered. Basic principles on antenna and special antennas are discussed in appendices Contents Antenna Basics Point Sources Antenna Arrays Electric Dipole and Thin Linear Antennas The Loop Antenna The Helical Antenna and the Yagi-Ud array Antenna Types Propagation of Ground and Space Waves Sky-Wave Propagation Appendices.

Antennas and Wave Propagation is written for the first course on the same. The book begins with an introduction that discusses the fundamental concepts, notations, representation and principles that govern the field of antennas. A separate chapter on mathematical preliminaries is discussed followed by chapters on every aspect of

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antennas from Maxwell's equations to antenna array analysis, antenna array synthesis, antenna measurements and wave propagation.

The aim of this book is to give an introduction to the fundamental principles of antennas and wave propagation. Unlike other books available, there is more emphasis on mathematical explanation in addition to physical understanding. Physical principles are explained in detail with clear diagrams to support the theory.

In the offered book the fundamentals of electromagnetic fields and waves are discussed based on the great Maxwell equations. The book is conceived as a textbook for serious technical and classical universities in the considered themes. Nevertheless, it can be used,

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of course, as the reference book for wide group of engineers, researches and practical experts. Material of this book is divided into four main parts connected between them. The first part (Fundamental of Electrodynamics) is devoted to explanation of Maxwell equations and methods of its solutions. Besides classical interpretation the generalized equations are discussed, which take into consideration the scalar magnetic fields. New approaches allow description of so-called longitudinal electromagnetic waves, which have the absolutely non-standard propagation properties, and permit to explain various electrodynamics paradoxes, which cannot be explained in another way. The main characteristics of wave processes in the free space and in transmission lines (feeders) are described. The second part (Radio Wave Propagation) investigates the obvious patterns of diffraction and interference phenomena at

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radio wave propagation for the obstacle presence in the propagation track, which is typical for all practical situations. Radio wave propagation of various frequency ranges is fulfilled separately taking into consideration the specific features of reflections from the atmosphere parts, attenuation in different media, types of propagating waves, multipath effects, diffraction and non-standard conditions of obstacle overcoming including non-usual ways of atmosphere ducts. The third part is devoted to description of various types and antennas, beginning from simplest (vibrators) and ending by complicate adaptive antenna arrays. Description is fulfilled on the reviewing level with many obvious figures, not to rely on strict mathematical methods, but rather on the concept level. Fourth part includes description of UHF devices, which are the elements' base of UHF devices including surface and bulk integrated UHF circuits.

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These results have in many aspects the pioneer character and they are not widely known to experts. Distinctive feature of the offered book is sufficiently simplifies description of the very complicated electrodynamics problems available for the modern students and for young engineers. Of course, it is impossible to deal without mathematics in theses areas but required mathematics can be replaced by the many patterns, which give the chance to understand problems and to determine the complex questions. Sample Chapter(s) Chapter1: GENERAL DEFINITIONS AND RELATIONS OF ELECTRODYNAMICS (498 KB)Contents:FRONT MATTERCHAPTER 1. GENERAL DEFINITIONS AND RELATIONS OF ELECTRODYNAMICSCHAPTER 2. ELECTROMAGNETIC FIELDS AND WAVESCHAPTER 3. MAIN PHYSICAL

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DECIMETER, METER AND DECAMETER WAVES CHAPTER
8. ANTENNAS OF HECTOMETER, KILOMETER
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ENGINEERING BACK MATTER Readership: The book is conceived as a textbook for serious technical and classical universities in the considered themes. Nevertheless, it can be used, of course, as the reference book for wide group of engineers, researches and practical experts.

The book considers the theory of long lines, electromagnetic waves and radio wave propagation, antenna-feeder devices for various bandwidths, and antenna measurement engineering. The questions of the theory and design of antennas for the ultrashort wavelengths which are used in radar, radiocommunication, and television are considered in the greatest detail. This book is a text for the course

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'Antennas' for the technicians in addition it will be useful for college students, engineers and technicians in industry. (Author) 9.

This book is designed for the final year students in electronics and communication and for the first year post graduate students in Digital Communication and allied subjects. This compact and comprehensive text fulfils the long felt need for a suitable text book in the area of “Antenna and wave Propagation”. It is written as per the revised syllabus of Rajasthan Technical University (RTU), Kota. It covers the topics, of fundamentals of antenna, types of antenna, antenna arrays, radio propagation modes, with basics of IE3D software and advance antenna topics. This well organized text lays emphasis on all the modes of propagation and practical aspects of antenna, with worked out examples & further previous year

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