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dr. t. r. lenka is currently assistant professor in the department of electronics and communication engineering, national institute of technology silchar, assam. he received ph.d. in microelectronics engineering from sambalpur university, odisha, india, in 2012. his research interests include nanoelectronics: iii-nitride and ga2o3-based heterojunction devices for rf/microwave and power electronics and nanowire led, solar photovoltaics, mems-based piezoelectric energy harvesting, and nanotechnology. introduction. basic antenna parameters patterns, beam area, radiation intensity. beam efficiency, directivity-gain-resolution. antenna apertures, effective height. illustrative problems. fields from oscillating dipole, field zones, shape-impedance considerations, antenna temperature, front to-back ratio, antenna theorems, radiation- basic maxwells equations, retarded potentials helmholtz theorem note that we have assumed that the wave is moving in the -z direction with a velocity v. the variables e(x,y,z,t) and b(x,y,z,t) are also constants. once the electromagnetic fields and wave velocity are specified, the equations of maxwell's equations can be used to determine the electric and magnetic fields at a point x,y,z,t..

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a linear array is a group of electronically steered antennas, each of which has its own electrical phase delay. however, conventional linear arrays suffer from the problem of inter-element mutual coupling which causes a reduction of the radiation pattern. in this paper, a new linear array is proposed by the use of a dual-slotted transmission line. the new linear array has a radiation pattern that is similar to that of the conventional linear array, while the inter-element mutual coupling is suppressed to minimum level. furthermore, the proposed array can be coupled to a rectangular waveguide with a wideband radiation pattern. this paper presents a numerical investigation of electric and magnetic radiation from a circularly polarized point-like dipole in free space. the dipole is excited by a time-harmonic, linearly polarized, electromagnetic plane wave. and a 0.2 [m] antenna can be constructed using a 2.5 [m] rope. we will see that the ratio of the surface area of a sphere to the surface area of a cube is 3:2:1. these figures, the ratios of the surface area of a sphere to the surface area of a cube, a sphere to a cube, and a sphere to a cube, which are evident in the shape of the antenna will be used to compute the antenna bandwidth. the figure of 8 antenna is a simple, yet effective antenna. because of the property that it has a constant radiation pattern, and a polarization which is identical for all directions, it is often used as a simple model for a half-wave dipole antenna. an easy way to imagine a uniform current distribution over the surface of the earth is to start at the north pole, move across the surface in a north-south direction, then move across the bottom of the earth to the south pole. you can then imagine that the current loops around the earth in a figure eight pattern. the figure 8 antenna has only the looping element, and is ideal for transmitting and receiving at a low frequency. the antenna pattern is a useful way to compare the performance of different antennas at a particular frequency. for example, a figure 8 antenna has only one element, and is a very efficient antenna. the antenna pattern is the radiation pattern from an antenna and is the pattern of the radiation of the electromagnetic field of the antenna. it can be pictured as a map, or a projection, or a model of the radiation pattern. the pattern that results in a flat response is called the figure of merit. this figure of merit for a flat antenna is r, and for a lens antenna is f. antenna radiation pattern is a diagram of the electric and magnetic fields of the antenna. the antenna radiation pattern is important for two reasons. the first is that the antenna radiation pattern determines the direction of the radiation of the antenna, i.e. the direction of maximum radiation. the second is that it can be used to predict the direction of maximum radiation of an antenna, that is, the direction of maximum gain. in addition, it can be used to determine the direction of minimum radiation. the antennas surface effect. the surface effect of an antenna is the

effect of the physical dimensions of the antenna on the radiation pattern of the antenna. if the physical dimensions of an antenna are increased, the radiation pattern will increase. if the physical dimensions of an antenna are decreased, the radiation pattern will decrease. other factors that will affect the radiation pattern of an antenna are the physical dimensions of the loop, the orientation of the loop, and the dimensions of the supporting structure. the polarization effect. the polarization effect of an antenna is the effect that a change in the orientation of the antenna has on the radiation pattern of the antenna. when the polarization of an antenna is changed, the radiation pattern of the antenna is changed. this is called the polarization effect of the antenna. the simplest example of the polarization effect of an antenna is the effect of changing the orientation of a dipole antenna. if the orientation of a dipole antenna is changed by 90 degrees, the radiation pattern will change. another example of the polarization effect of an antenna is the effect that changing the orientation of a loop antenna has on the radiation pattern of the loop antenna. if the orientation of a loop antenna is changed by 90 degrees, the radiation pattern will change. this is called the polarization effect of an antenna. the frequency effect. the frequency effect of an antenna is the effect that a change in the frequency of the incident wave has on the radiation pattern of the antenna. the frequency effect of an antenna is very important to antenna designers. 5ec8ef588b

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