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polarization of an antenna in a given direction is defined as the polarization of the wave transmitted radiated by the antenna  
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*near field to far field transformation techniques with spiral* hindawi Nov 05 2020 an overview of the near field far field nf ff transformation techniques with innovative spiral scanings useful to derive the radiation patterns of the antennas commonly employed in the modern wireless communication systems is provided in this paper the theoretical background and the development of a unified theory of the spiral scanings for quasi spherical and  
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microstrip patch antenna design slideshare May 23 2022 jan 21 2013 design study of microstrip patch antenna the project here provides a detailed study of how to design a probe fed square micro strip patch antenna using hfss v11 0 software and study the effect of antenna dimensions length  $l$  and substrate parameters relative dielectric constant  $\epsilon_r$  substrate thickness  $t$  on the radiation parameters of bandwidth and

??  $ka$  ?? ??????? ?? ?? ?? Nov 24 2019 balanis c a antenna theory analysis and design 3rd edition wiley 2005 12 kwan hyeong lee a study on the performance cdma system using adaptive array antenna beamforming technique the journal of korea institute of information electronics and communication technology volume 5 no 2 pages 68 73 june 2012

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computational electrodynamics finding approximate solutions to the associated system of differential equations since it is a time domain method fdtd solutions can cover a wide

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*near and far field wikipedia* Jul 13 2021 for antennas shorter than half of the wavelength of the radiation they emit i e electromagnetically short antennas the far and near regional boundaries are measured in terms of a simple ratio of the distance  $r$  from the radiating source to the wavelength  $\lambda$  of the radiation for such an antenna the near field is the region within a radius  $r < \lambda/2$  while the far

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**loop antenna wikipedia** Jun 24 2022 a loop antenna is a radio antenna consisting of a loop or coil of wire tubing or other electrical conductor that is usually fed by a balanced source or feeding a balanced load within this physical description there are two possibly three distinct types large loop antennas or self resonant loop antennas have a perimeter close to one or more

whole wavelengths at the operating

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