→ Square corner reflector using method of Images

→ Calculate the directivity of 20 turns helical antenna with $\alpha = 12^\circ$ and circumference is one wave length.

→ Advantages & Limitations of microstrip antennas.

→ A parabolic dish provides a power gain of 50dB at 10GHz with a 70% efficiency. Find diameter & Beam width.

→ principle of helical antenna.

→ A paraboloid reflector of 1.8 cm diameter is used at 6 GHz. Calculate FNBW.

→ Explain Cassegrain feed mechanism of parabolic reflector

→ parabolic reflector has radiation characteristic whose HPBW is 5° and find out its FNBW and gain

→ measurement of Radiation pattern & Set up of antenna measurement

→ Calculate the minimum distance required to measure the field pattern of antenna of diameter 1.5 m at freqency of 3GHz.

→ Design a rectangular microstrip antenna using a substrate with $\varepsilon_r = 2.2$, $h = 0.1585$ cm, at $f = 10$GHz.

→ measurement of gain by direct comparison method

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→ phenomenon of sky wave propagation

→ wave tilt in ground wave propagation

→ space wave propagation

→ descibe scattering phenomenon / Trophosphere Scattering

→ phenomenon of ground wave propagation.

→ Short notes on roughness of the earth

→

→ application of helical antenna

→ To depends on what parameter (microstrip feed line)

→ Zoning effect of lens antenna

→ operation of parabolic antenna - short notes

→ compare offset feed & front feed

→ principle of lens antenna

→ ~~Calculate the minimum~~