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Shaped Subreflector for Offset Gregorian Reflector Antenna...

A Gregorian configuration is chosen for the dual reflector antenna that has to operate at the Receive and Transmit Ku-Band. The offset parabolic reflector to be employed in the design has a projected circular aperture with a 3.6 m diameter (D), y/D=0.64 (focal to diameter ratio) and the offset distance 1.95 m, as indicated in the Figure 1.

A parabolic antenna is an antenna that uses a parabolic reflector, a curved surface with the cross-sectional shape of a parabola, to direct the radio waves. The most common form is shaped like a dish and is popularly called a dish antenna or parabolic dish. The main advantage of a parabolic antenna is that it has high directivity.

A parabolic antenna is formed from a shape known as a paraboloid. This shape forms the reflective surface in the antenna that enables waves reflected by the surface to retain their phase relationship, thereby enabling the maximum gain to be obtained.

The parabolic reflector antenna gain is calculated as the gain over an isotropic source, i.e. relative to a source that radiates equally in all directions. This is a theoretical source that is used as the benchmark against which most antennas are compared. The gain is quoted in this manner is denoted as dBi.

Parabolic reflector theory basics As the name implies, the parabolic reflector is formed from a shape known as a paraboloid. This shape forms the reflective surface in the antenna that enables waves reflected by the surface to retain their phase relationship, thereby enabling the maximum gain to be obtained.

Parabolic reflectors (or paraboloids) and mirrors are used in astronomical telescopes, car headlights and satellite dishes. The common geometrical shapes used are spherical, ellipsoidal, paraboloidal and hyperboloidal. These shapes are simple conic sections.

How to design parabolic, hyperbolic, elliptical reflectors...

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The Parabolic Reflector Antenna (Satellite Dish) The most well-known reflector antenna is the parabolic reflector antenna, commonly known as a satellite dish antenna. Examples of this dish antenna are shown in the following Figures. Figure 1.

Parabolic reflector - Wikipedia

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