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~~Reflector and Lens Antennas: Analysis and
Design Using ...~~

Abstract. This chapter is subdivided into two sets of antennas that function on similar principles. While the reflector is known for shaping a beam in a particular direction (based on the location of a feed antenna) by using a reflecting aperture, a lens achieves a

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shaped beam by diffracting the signal from the source antenna.

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17.4.4 Horn feeds for reflector antennas. A reflector antenna consists of the reflector plus the horn feed at the geometric focus of the reflector. Thus the correct choice and

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design of the feed is an important part of the design of the total reflector antenna. High performance feeds are necessary to achieve high performance antennas.

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space borne antennas the large 1000 foot
diameter reflector at arecibo is a well known
example of the former although some

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extremely large spaceborne ...

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Design and analysis of multiple-beam reflector antennas. Abstract: Simplified design and analysis equations are presented for multiple-beam reflector antennas based

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on the Gaussian-beam analysis of the primary and secondary patterns. The derived equations are useful for the quick design and performance analysis in terms of the coverage-area directivity and the inter-beam isolation of multiple-beam antenna systems.

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~~Design and analysis of multiple-beam
reflector antennas ...~~

This paper briefs about the reflector antennas, their feeding techniques and design of a feed antenna. The feed antenna at the reflector's focus is typically a low-gain type such as a half-wave dipole or more often a small horn antenna called a feed

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horn. A cylindrical horn is being designed for 5.5GHz using the concept of Coffee Can feed.

~~A Study on Reflector Antennas and Design of Reflector ...~~

Lens Antenna Design: The paraboloid reflector is one example of how optical

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principles may be applied to microwave lens antenna, and the Lens Antenna is yet another. It is used as a collimator at frequencies well in excess of 3 GHz and works in the same way as a glass lens used in optics. Principles of Lens Antenna:

~~Lens Antenna | Operation of Dielectric Lens~~

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Antenna ...

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In lens antennas, feed and feed support, do not obstruct the aperture. It has greater design tolerance. Larger amount of wave, than a parabolic reflector, can be handled. Beam can be moved angularly with respect to

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the axis. Disadvantages. The following are the disadvantages of Lens antenna – Lenses are heavy and bulky, especially at lower frequencies. Complexity in design. Costlier compared to reflectors, for the same specifications. Applications

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Characteristics of Large Deployable
Antenna Reflector Onboard Engineering
Test Satellite VIII, " Acta Astronautica,
Vol. 65, Nos. 9 – 10, 2009, pp. 1306 – 1316.

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Mixed Triangle Lattice Reinforced
Membrane Antenna ...

Casse grain is another type of feed given to

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the reflector antenna. In this type, the feed is located at the vertex of the paraboloid, unlike in the parabolic reflector. A convex shaped reflector, which acts as a hyperboloid is placed opposite to the feed of the antenna. It is also known as secondary hyperboloid reflector or sub-reflector. It is placed such that its one of the foci coincides with the

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focus of the paraboloid.

~~Antenna Theory – Parabolic Reflector –
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Lenses are very flexible and simple to design and fabricate, being a reliable alternative at these frequencies to reflector antennas. Lens target output can range from a simple

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collimated beam...

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The aim of this book is to present the
modern design principles and analysis of
lens antennas. It gives graduates and

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RF/Microwave professionals the design insights in order to make full use of lens antennas. Why do we want to write a book in lens antennas? Because this topic has not been thoroughly publicized, its importance is underestimated.

~~Modern Lens Antennas for~~

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Communications Engineering ...

Geometrical optics (GO) is a very convenient formulation for lens (or reflector) design. It derives from the asymptotic solution of Maxwell ' s equations in the high-frequency limit (Kay 1965). As long as the overall lens dimensions and surface radius of curvature at any point

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are much larger than the wavelength, wave propagation inside a homogenous isotropic lens may be conveniently modeled in terms of elementary ray tubes.

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Antenna for Satellite Communications 238.

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