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

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

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

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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 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

[Antenna Theory – Lens – Tutorialspoint](#)

Modern Methods of Reflector Antenna Analysis and Design (Artech House Antenna Library) Illustrated Edition by Craig R. Scott (Author) ISBN-13: 978-0890064191. ISBN-10: 0890064199. Why is ISBN important? ISBN. This bar-code number lets you verify that you're getting exactly the right version or edition of a book. The 13-digit and 10-digit ...

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Mixed Triangle Lattice Reinforced Membrane Antenna Reflector: Design and Analysis. " In-Orbit Deployment Characteristics of Large Deployable Antenna Reflector Onboard Engineering Test Satellite VIII, " Acta Astronautica, Vol. 65, Nos. 9–10, 2009, pp. 1306–1316.

[Mixed Triangle Lattice Reinforced Membrane Antenna ...](#)

Casse grain is another type of feed given to 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 focus of the paraboloid.

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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 collimated beam...

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An edition of Reflector and lens antennas (1988) Reflector and lens antennas analysis and design using personal computers by Carlyle J. Sletten. 0 Ratings 0 Want to read; 0 Currently reading; 0 Have read; This edition published in 1988 by Artech House in Norwood, MA. Written in ...

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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 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 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 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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