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In this article, a novel design of

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wideband planar substrate integrated waveguide (SIW) cavity-backed antenna (CBA) consisting of amended dumbbell-sha...

Wideband planar substrate integrated waveguide cavity ...

HFSS - Slot/Aperture coupled Feeding -
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2 4GHz - Duration: ... Tune Bandpass
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Rod-excited waveguide slot antenna simulation

component used is a cylindrical cavity
which backs a basic slot antenna. The
whole structure is feed by the

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rectangular waveguide. There are 3 slots on the topmost circular disc Cavity Backed Slot Antenna Sarang Masani, Ila Parmar, Hitendra Jadeja

Cavity Backed Slot Antenna - IJARCSEE

The basic cavity-backed slot antenna is shown in Figure 1 (in a rectangular cube

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of size $A*B*C$). The walls are metallic (electrically conducting), and the inside is hollow. On one end, a slot is cut out. The cavity is typically excited by a probe antenna in the interior of the cavity, which typically is modelled as a monopole antenna.

Cavity-Backed Slot Antennas -

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Antenna Theory

The whole antenna including backed cavity and feeding element is completely constructed at a single substrate by using substrate integrated waveguide technique and grounded coplanar waveguide. An example with 1.7% bandwidth has been presented, which has 5.4 dBi gain, 16.1 dB front-to-

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back ratio and -19 dB maximum cross polarized radiation level with its total thickness less than $\lambda/50$.

Planar Slot Antenna Backed by Substrate Integrated ...

A Cavity-backed Coplanar Waveguide Slot Antenna Array James McKnight
ABSTRACT In this thesis, a cavity-backed

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slot antenna array is designed for relatively wide instantaneous bandwidth, high gain and low sidelobes. The array consists of four, rectangular, slot elements, arranged side-by-side in a linear array and developed around 5GHz.

A cavity-backed coplanar waveguide

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slot antenna array

et al.7has been considered and effort is made to locate these slots on the broader wall of a rectangular waveguide. As the antenna has been designed for 9.35 GHz and the length of slot is found to be 1.4 cm, which can not be etched on the narrow wall with an inclination angle of 39° on the waveguide.

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Design and development of inclined longitudinal slot ...

The VSWR is dependent on the slot width, slot length, and cavity depth at the low end of the band. The ridge parameters tune the antenna in the midband and high-band frequencies. The VSWR is less than 2.7:1 from 240 to 279

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MHz and under 2.1:1 from 290 to 400 MHz for cavity dimensions of 33 by 33 by 4 in.

Chapter 8 Slot Antennas - eetrend.com

A planar cavity-backed dual-frequency antenna is implemented by using a substrate integrated waveguide (SIW)

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technique. The antenna comprises a pair of triangular-complementary-split-ring slots, etched on the SIW-cavity which generate a couple hybrid-modes to realize a dual-frequency operation.

Dual-frequency SIW-based cavity-backed antenna - ScienceDirect

Slot radiators or slot antennas are

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antennas that are used in the frequency range from about 300 MHz to 25 GHz. They are often used in navigation radar usually as an array fed by a waveguide. But also older large phased array antennas used the principle because the slot radiators are a very inexpensive way for frequency scanning arrays.

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Slot Antennas - Radartutorial

This paper discusses the design, analysis, and development of waveguide-fed planar slot arrays to achieve low-average-sidelobe specifications, as may arise in radiometer applications. Such antennas may be required to meet strict average sidelobe levels in different angular regions, and low average return

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loss over a specified bandwidth.

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