

Antenna Theory Solution Stutzman

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If anything about electronics approaches the level of black magic, it's antenna theory. Entire books dedicated to the subject often merely scratch the surface, and unless you're a pro with all ...

Putting A Poor Man's Vector Analyzer Through Its Paces

Though it is a very effective antenna given that it is made from a couple of pieces of wire and a ferrite core it takes most of the length of the space, and as we're sure Hackaday readers with ...

The Poynting Vector Antenna

To get the best power transfer into an antenna, tuning is required. This process uses a load to match the transmission line to the antenna, which controls the standing wave ratio (SWR).

Automatic Antenna Tuner

Former marine electronics director Andy Haines answers a reader's question about installing an SSB radio antenna. Got a question? Email pbo@futurenet.com ...

SSB radio antenna: How can I install one on my boat? Our expert answers

The book opens with an analysis of wire antennas, antenna arrays, and aperture antennas suitable for radar applications. Following a treatment of sources of noise, the book moves on to give a detailed ...

Antennas and Radar for Environmental Scientists and Engineers

In [Fran's] DEFCON talk this summer he calls it the "ass-grabbing method" of trying to get a hidden antenna close enough to a target's wallet. His solution takes an off-the-shelf high ...

RFID Reader Snoops Cards From 3 Feet Away

It consisted of an antenna and a small cylinder. One side of the cylinder was solid. The other side consisted of a very thin diaphragm, obviously some sort of microphone. Passive resonant cavities ...

Theremin's Bug: How The Soviet Union Spied On The US Embassy For 7 Years

The solution? Install a WiFi repeater with an external antenna. He's using a TP link station with two antennas — he's removed one and hooked it up to a rugged outdoor antenna that gives the ...

Bringing WiFi Into A Mobile Hackerspace

Dealing with an antenna is one of those topics we never feel like we know enough about. MIT had a live stream of [Dr. Kiersten Kerby-Patel] discussing antennas in a talk, sponsored by the ham ...

Ham Antennas From MIT

The DSN was built specifically so that each new mission didn't need to roll its own communications solutions and could just leverage the current network. Networks for the ESA and for other ...

Serious DX: The Deep Space Network

The best solution for a relatively wrinkle-free metallic surface is duct tape. I still have to properly characterise this dish. I know the gain is good enough, and in theory, it should be well ...

Increase The Range Of An ESP8266 With Duct Tape

Each antenna covers a 200-meter radius and uses a fiber network because, courtesy of existing underground infrastructure. There is some signal loss from transmitting and receiving beneath a slab ...

Manhole Covers Hide Antennas

Analog modulations are also presented, and all of the basic and advanced mathematics, statistics, and Fourier theory needed to understand the concepts covered is included. Supported online with ...

Modern Communications

After reading this article on nano scale antenna fabrication, a professor asked [Camerin] if it was possible to build a 3D inkjet printer with a ludicrous amount of accuracy and precision.

Ask Hackaday: Building Nano Scale Antennas

You can replicate it with parts bought from newegg, and despite using a highly directional antenna the FCC - or ... have a Raspberry Pi-based hardware solution for this technique coming shortly.

DEF CON: The Proxy For ProxyHam

A signal from a transmitter applied to an antenna generates the fields ... German physicist Heinrich Hertz proved Maxwell's theory. Maxwell developed four basic equations that show the ...

What's The Difference Between EM Near Field And Far Field?

A number of others features of the transmitters also evoke period nostalgia. The coupling to the antenna can be changed using movable glass rods, although without shielding there are quite a ...

Hacking Transmitters, 1920s Style

Amateur radio operators like to say that working a contact in space can be done with a simple handheld transceiver and a homemade antenna. And while that's true, it's true only for low Earth ...

A Hybrid Helical Antenna For The Es'hail-2 Geosynchronous Repeater

One problem with ham radio these days is that most hams live where you can't put a big old antenna up due to city laws and homeowner covenants. If you're just working local stations on VHF or ...

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