

## All About Cubical Quad Antennas 1st Edition

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### **All About Cubical Quad Antennas**

All About Cubical Quad Antennas. This well-known classic on Quad theory, design, construction, and operation has been updated to include new Quad designs, new dimension charts, additional gain figures, and much more.

### **All About Cubical Quad Antennas by William I. Orr**

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The Cubical Quad or Quad antenna has traditionally not been as widely used as its more popular

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cousin the Yagi. However the cubical quad beam antenna is able to provide some advantages in a number of circumstances. Since its first introduction in the 1940s, the quad antenna has found uses in a number of areas.

### **Cubical Quad Antenna: Quad Aerial » Electronics Notes**

Quad installation, adjustment, evaluation, maintenance. Quad facts: angle of radiation, directivity, power gain, front-to-back ratio. And a lot more.... All About Cubical Quad Antennas is selling on Amazon.com for \$43.95 plus \$3.99 shipping! You can buy it here for only \$19.95 which includes USPS postage.

### **All About Cubical Quad Antennas - Radio Authors**

antenna books and articles about quad antennas, we will often find references to quad antennas having 2 dB gain over a comparable boom length yagi antenna. The statement often made is a single quad element has 2 dB gain over a dipole, and that 2 dB gain difference carries over into arrays of quad elements. If we actually model or build antennas ...

### **Cubical Quad Antenna - W8JI Website**

The net result of all the above factors is that a practical Cubical Quad loop offers about 1.0-1.2dB higher gain with a slightly wider SWR bandwidth, lower take-off angle under certain conditions, narrower elevation lobe, wider azimuth beamwidth, and at times a slightly quieter RX antenna.

### **Cubical Quads & Delta Loops | VU2NSB.com - Amazing Amateur ...**

Back in 1951 Clarence Moore a Christian Missionary and engineer at a radio station high in the Andean mountains of Ecuador, developed a two loop antenna that he called a Cubical Quad. He developed this antenna to resolve issues caused by large coronal discharges while using a yagi beam antenna in the thin air of higher altitudes.

## **Cubical Quad Antenna - Ham Radio Antennas**

Cubex currently offers Cubical Quad antennas for 70 centimeters through 40 meters. All models are built using only the finest materials available, including but not limited to cast aluminum alloy spiders, and only the finest quality fiberglass spreader arms.

## **CUBEX Homepage**

The cubical quad antenna is without doubt the best DX antenna available. It has a higher gain than any other antenna of similar dimensions and is also very cheap to construct. One of the greatest advantages of the quad is that it exhibits a lower angle of radiation than a yagi at heights of less than one wavelength.

## **Building a Quad Antenna | Ham and CB Radio**

Horizontal or vertical polarization of an cubical QUAD-Antenna is determined by placement of the feed point (feed gap on the driven element) - Parasitic elements need to be mounted in the same orientation as the driven element. If tuning gap is present on the parasitic elements, doesn't the placement of this gap effect the polarization.

## **Quad Antenna Calculator - Wire Antennas UK**

The cubical quad antenna likely got its name from the appearance of early 2-element versions of the array. As Fig. 1-1 suggests, the arrangement of the elements makes a sort of visual, if not a geometrically pure, cube. The history of the quad is succinctly told in the Orr and Cowan book on Cubical Quad Antennas (pp. 5-9) and needs little repetition

## **Cubical Quad Notes**

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### **All About Cubical Quad Antennas 3rd Edition | Peatix**

In the design of Cubical Quad antennas there are several competing goals or constraints that control the final results. Three important ones are Forward Gain, Front to Back ratio, and Source Impedance. Other factors are material related - Boom Length, and number of elements. Variations

### **Feeding and Configuration**

A quad antenna is a type of directional wire radio antenna used on the HF and VHF bands. Like a Yagi-Uda antenna, a quad consists of a driven element and one or more parasitic elements; however in a quad, each of these elements is a loop antenna, which may be square, round, or some other shape. It is used by radio amateurs on the HF and VHF amateur bands.

### **Quad antenna - Wikipedia**

The quad forms a box about 36' top and side, with a front-to-back spacing of about 20 feet. The figure shows the wire dimensions for a full size quad optimized for maximum performance at the lower end of the band. The modeled wire size for this and all models is #14 copper. If you use a fatter wire, do not expect element shortening.

### **Full and Shrunk 40-Meter Quads - AntenTop**

The typical quad array is a wire affair, and wire has a very small diameter relative to the length of an RF wave. If the typical 20-meter Yagi-Uda array uses elements that average 1" in diameter, the typical #14 AWG copper wire quad uses an element under 6.5% as large.

### **Cubical Quad Notes**

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