

fig. 3. The Austin-Fourie wideband antenna covers 3.30 MHz with SWR less than 2.5-to-1.

wraps will hold it securely after the glue has dried (fig. 1).

Lloyd staggers the Quad wire supports on each side of the arm to distribute the stress more equally (fig. 2). He uses two smaller booms, spaced about one foot apart as supports because a single boom for a four element Quad will not stand the gaff in bad weather.

a wideband "dipole" antenna

Bill Wildenhein, W8YFB, called my attention to an interesting antenna developed by Dr. Brian Austin and Andre Fourie of the University of Liverpool

and described in the September, 1987 issue of Flectronics and Wireless World published in England. The design functions from 3 to 30 MHz with an SWR of 2.5:1 or less over that range (fig. 3).

The antenna consists of two coilloaded dipoles fed in parallel. A 32-µH loading coil is placed in each dipole half, as shown in the illustration. The angle between the dipoles is not specified.

The feedpoint impedance is about 500 ohms, so the antenna could be fed with a 50-ohm line and a 10:1 balun.

It would be interesting to try this unique antenna in an inverted-V arrangement and run an SWR curve across the operating range. Any takers?

antennas for the 24.9-MHz band

Need a quick design for a beam antenna for this band? Simply take an applicable 6-meter beam (50 MHz) and multiply all important dimensions by 2!

references

1. Radio World, a publication of Industry Marketing Advisory Services, Inc., 5827 Columbia Pike, Suite 310, Falls Church, Virginia 22041, October 15, 1987.

ham radio





