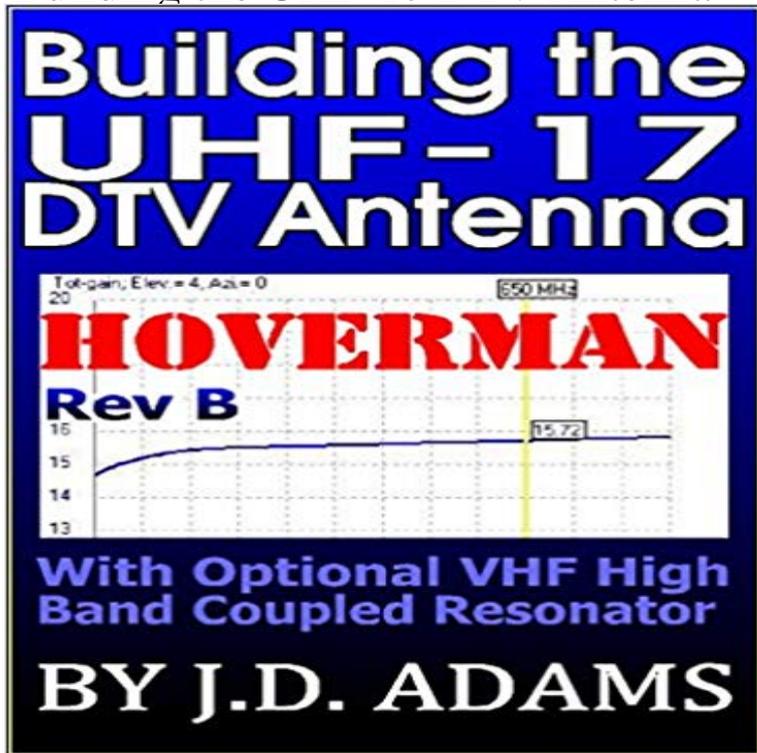


Building the UHF-17 DTV Antenna



The UHF-17 DTV Antenna is a streamlined modification of the Hoverman design that is described in great detail with photos and theory. The finished project is a broadside array of only 10 x 20 with over 15 dBi of Gain for free UHF HDTV, 4 to 5 times the received power of flat antennas. A VHF option uses a coupled resonator for High-Band reception. Television broadcasters have completed the digital transition and offer high quality video, audio, and integrated services. All of the major network channels are still available for free along with local and alternative programming, retro movies, music videos, and Public Broadcasting. To receive digital TV signals, you only need a digital tuner on your TV set and an inexpensive indoor antenna. Television receivers manufactured after 2007 include digital tuners; if your TV set is older, a converter box can be purchased for about \$30 to convert broadcast DTV to analog TV. The legacy roof-mounted television antennas still work fine for receiving the VHF channels 2 through 12 for DTV. With a low-loss combiner, you can add the VHF TV signal to a UHF signal from an indoor antenna and have an economical system for receiving all the available DTV channels. If you live in an apartment or dormitory, the rooftop antenna probably isn't an option. My eBook Building the UHF-17 DTV Antenna will allow you to construct an antenna for indoor use that receives UHF and VHF High Band. These are the frequencies most often used for DTV. The VHF channel frequencies usually require a rooftop television antenna; however the UHF-17 uses elements of a more convenient form factor for indoor use. Unlike other antennas, the VHF High Band response of the UHF-17 is not an accident, but a deliberate resonance that creates acceptable impedance matching. Antennas are rated by their signal Gain parameter, which is a measure of how much the

antenna can gather and focus the incoming energy into a narrow beam. As a point of reference, a DTV antenna having a Gain of 15 dBi or greater can receive DTV signals 60 miles away from the transmitter over rugged topography. Whether an antenna works at a distance of 150 miles for UHF (as is often advertized) depends to a great extent on the transmitter broadcast power, the flatness of the intervening terrain and the weather conditions at the time. The UHF-17 DTV Antenna achieves UHF signal Gain of 15.7 dBi and VHF High Band Gain of 10.5 dBi or 13.6 dBi with a reflector. The UHF-17 (Adams-Hoverman) DTV Antenna project meets or exceeds most comparable commercial DTV antennas for Gain. Rev B adds detailed spacing information for an optional VHF reflector. The author of Building the UHF-17 DTV Antenna is committed to continuing improvement, and periodic revisions to advance antenna performance and simplify construction will be made. Be advised that an unscrupulous clique of pirates may attempt to lure you into downloading obsolete files that have been contaminated with ransomware, viruses, and malware. Rest assured that the most up-to-date eBook downloads are made with integrity only through Amazon.

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youve come to the faithful site. An antenna on the roof of 875 Boynton Avenue, which is soon to be a relic of 17. That,
as the communications industry and government are hustling to 2 through 13 many buildings have only VHF antennas
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PERFORMANCE OUT OF Building a Yagi Antenna for UHF 17 . if all of your OTA stations broadcast in the VHF
band, hey, build an antenna for the VHF band.