

Free read High performance crystal radios ottawa electronics club [PDF]

Jim's high performance crystal radio features ceramic insulated variable capacitors, twin National Velvet dials, and ferrite core inductors wound with litz wire. This crystal set led to the design of the Hobbydyne crystal radio circuit by Jim Frederick, setting the stage for many more Hobbydyne mods. The radio has four subsystems: an antenna tuner, a bandpass filter, a detector, and a powered audio output system. He also has a truly enormous system of speakers on the ceiling. This isn't the crystal radio; it's a comprehensive story containing historical, educational, technical, and biographical elements. Opinions by John Fuhring: if you found this page while looking for a simple but great performing little radio that you can build yourself, you might be more interested in reading about an Armstrong crystal radio. Gord has been building crystal radios for almost 40 years, starting as a child living near Toronto. Toronto was especially challenging for first-time crystal radio builders because of the large number of high-power AM stations in the area. This page describes my reconnection to the hobby of crystal sets or crystal radios and includes the documentation for my latest high-performance set. A technical discussion by Jim Frederick of HobbyTech.com for building a high-performance crystal radio set. Jim covers the tuning circuits, types of coils, capacitors, inductors, diodes, the use of litz wire, and the Q or quality of a coil, and the requirements for earphones used with a crystal radio. Discovery is a high-performance crystal radio receiver kit covering the AM broadcast band. Superb selectivity is attained through the use of a loose-coupled double-tuned circuit with two litz-wire-wound ferrite-loaded tuning inductors. Build a high-quality multi-band crystal radio crystal set with high sensitivity and selectivity. This crystal set can receive AM, shortwave, and longwave. The Toroidyne schematic demonstrates how crystal radios have evolved over the years to improve performance. Since the 2022 contest, it was discovered that a toroid-based inductor design could be further improved by careful attention to toroid selection based on permeability characteristics. This is my crystal set design that I call the Hobbydyne. It uses 700 strands of 46 litz wire on a 4.375-inch diameter detector coil. Seven individual strands of 100/46 were paralleled and lightly twisted in the correct direction. It is common to be able to hear real DX from shortwave broadcast stations thousands of miles away when conditions are right. It is a real thrill to hear the BBC London, Radio Netherlands, Radio Taiwan, and others on a crystal set. The performance on the AM broadcast band is also exceptional. Rediscovering history: crystalradio.net. Recently, my friend Don Asquin and I decided to build high-performance crystal sets. Much of this exploration is rediscovering the knowledge of the 1910s and early 1920s. Even then, there were claims of DX performance with crystal sets. How does a basic crystal set work? Rectifier crystal radios are the simplest type of radio receiver and can be made with a few inexpensive parts, such as a wire for an antenna, a coil of wire, a capacitor, a crystal detector, and earphones. Because a crystal set has insufficient power for a loudspeaker, this article describes ways to optimize the interaction between antenna-tuned circuit, detector diode, and headphones for the best possible sensitivity, selectivity, volume, and the least audio distortion in a crystal radio. Get the best deals on collectible crystal radios when you shop the largest online selection at eBay.com. Free shipping on many items. Browse your favorite brands, affordable prices. For those of us who want better SSB/CW receiver performance, are willing to operate on just a couple of bands on a given portable operation, and want long battery life and a lightweight radio, the HF handheld is the ultimate answer. Discover top-tier radio systems at RacingRadios.com, your ultimate destination for high-performance communication solutions on the track. Explore our

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