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## Crystal Radio

**crystal radio - wikipedia** - a crystal radio receiver, also called a crystal set, is a simple radio receiver, popular in the early days of radio uses only the power of the received radio signal to produce sound, needing no external power. it is named for its most important component, a crystal detector, originally made from a piece of crystalline mineral such as galena. this component is now called a diode. **high performance crystal radios - ottawa electronics club** - • crystal sets appear to be simple, but attention must be paid to all the details. • if you truly understand a crystal radio, you have a good foundation to rf engineering in general. **crystalradio the crystal radio - american radio relay league** - throughout the years, the simple crystal radio has spawned tens of thousands of radio amateurs, engineers and electronic hobbyists. and despite the antiquity of its design, it is still an effective tool for recruitment and instruction. a crystal radio is a delightful device, and the perfect way to introduce the wonder of **foxhole radios and crystal radios manual - rage university** - foxhole radios and crystal radios if you appreciate ingenuity, simplicity, and like instant gratification from your radio projects, then you ought to spend a few minutes building your own foxhole radio. foxhole radios were built by gis in world war ii from materials they had easy access to in the field. **crystal radio science fair project guidebook - weebly** - elegant project. the crystal radio turns the radio signal directly into a signal that the human ear can detect. since the radio does not use external power, the source of power comes directly from the radio waves themselves. your crystal radio detects in the am band that have been traveling from stations (transmitters) thousands of miles away. **crystal radio engineering resonant circuit - kennethkuhn** - crystal radio engineering resonant circuit 4 reciprocal of q). inductors have the dominant loss. this loss is commonly the series resistance of the wire (including skin-effect) but can also include losses in any magnetic **building a crystal radio - mike's electronic parts** - what is a crystal radio? a crystal radio receiver, also called a crystal set or cat's whisker receiver, is a very simple radio receiver, popular in the early days of radio. it needs no battery or power source and runs on the power received from radio waves by a long wire antenna. it gets its name from its most important component, known as a ... **crystal radio and superheterodyne receiver** - crystal radios have since been superseded, but their principles have not become obsolete. a crystal radio is a tuned circuit with no external power sources other than the radio waves that the attached antenna picks up. besides being the backbone of radios today, tuned circuits the menlo roundtable 101 **circular bureau of standards - crystal radio** - two-circuit radio receiving set 1 construction and operation of a two- circuit radio receiving equipment with crystal detector abstract the apparatus used for the reception of radio messages may be a homemade affair, very simple and inexpensive, or may be elaborate and expensive. all that is necessary for receiving radio messages **crystal radio engineering headphones - kennethkuhn** - crystal radio engineering headphones 2 50,000 ohms) devices and are ideal for use with crystal radios. dc voltages should not be applied so a coupling capacitor (typically in the 0.1 uf range) **full page fax print - crystal radio** - boys book of crystal sets with practical circuits w.jy medium, long, and short wave designs 12 different circuits to suit all areas and conditions complete practical wiring diagrams comprehensive information on aerial and earth installation there are suitable designs for the beginner and advanced constructor bernards radio manuals **designing a dx crystal set - antique wireless association** - designing a dx crystal set by mike tuggle 46-469 kuneki st. kaneohe, hi 96744-3536 e-mail: tuggle@apacs l ong distance reception with crystal radios is once again becoming a serious pursuit among hams and other radio hobbyists. they are discovering that the dx capabilities of these receivers have been greatly underrated. i've been particularly **experiment vii: building a crystal radio - umd physics** - crystal earpiece variable capacitor . small alligator jumper wires . iii. introduction and theory . today we will pull together all of the concepts we learned to build a first, primitive version of a radio. this radio, sometimes called a "crystal radio", is passive (meaning **make your own crystal radio! - franckgroupssprnell** - radio builders call the antenna the conductor that catches the wave in space. it can be the wire that comes with your set alone or a piece of metal such as an air duct. the ground is a connection to earth that allows the desired electric currents to pass from the antenna and through your radio. when running a home crystal set one can **never - science buddies** - never operate your crystal radio during a thunderstorm. when not in use, always disconnect your antenna from the radio circuit, and connect it directly to the ground rod. be sure to wear safety goggles when installing the ground rod, especially if you are using a metal hammer. an **build a foxhole radio - make** - this project is similar to a simple crystal radio but crystals were hard to get ahold of for the soldiers and so they made do. radio making runs in my family. my grandpa charlie made his own radios in the 30s and during the war as well. in fact, in a recent email, he mentioned that they were encouraged to make radios and **the other side of crystal radio - university of chicago** - the other side of crystal radio: basics of am radio transmission for the past couple months, we have learned how simple, un-powered electronic components can be arranged in concert to receive and demodulate am radio broadcasts. it is now time to discover how to create and transmit these very same amplitude modulated signals. **gibson cr yst - radiomanual** - clear radio cement tools needed: needlenose pliers a small hammer wire cutters (b) project description the complete crystal radio set kit #8893 includes everything you need except for the wood baseboard, the cardboard tube from a toilet paper roll and varnish, nail polish, or clear radio cement to paint

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the coil. this little project is a sure ... **crystal sets to sideband - qrp amateur radio club ...** - the nature of radio waves mechanical and lc electrical oscillators antenna and transmission line theory crystal set components lc tuner pn junction diode detectors p-type and n-type semiconductors detection of am signals homebuilding the parts for a crystal set the jamestown diode the caribou headphone revisiting crystal sets in 2006 **shortwave crystal radio plans - wordpress** - shortwave crystal radio plans a working prototype of an armstrong "crystal" radio using an fet for the crystal. in my status as "electrician emeritus" i plan (in a very small way) to emulate alfred can a radio such as this **crystal radio kit 1 - mike's electronic parts** - simple crystal radio kit 1 connect long antenna here connect short antenna here 1n34a variable capacitor 47k .001uf ceramic ferrite loopstick antenna earphone variable capacitor a g ground o g a top side parts list 1 - ferrite loopstick antenna 1 - variable capacitor 1 - knob and shaft 1 - germanium diode 1n34a 1 - .001uf capacitor marked 102 1 ... **a pretty good crystal set - ar88** - crystal set combined with the sort of makeshift antenna most families could erect, wasn't going to get the job done. the result was the den two crystal radio. (see "crystal set projects," the xtal set society, 1997.) this radio was based on a spider-web coil that 10-year-old hands could wind with a little supervision. it is sensitive w **on the reduction of detector diode losses in a crystal radio** - on the reduction of detector diode losses in a crystal radio ramón vargas patrón rvargas@inictel-uni inictel-uni current design techniques for high-performance crystal radio receivers call for the use of quality components in the rf, detection and af sections of these radios, together with overall good antenna-ground systems. **heathkit of the month: by bob eckweiler, af6c** - heathkit of the month: by bob eckweiler, af6c the heath cr-1 crystal broadcast radio introduction: i remember building a crystal set as a young-ster. it had to have been before i was ten. the kit required you provide your own board and screw a mess of fahnestock clips into it using a given layout. the board i was given for the pro- **crystal radio - concordia university** - crystal radio original source: this is a generic circuit, the first true radio receiver in history. description: crystal radio requires no power supply to operate because it uses energy from the signals it receives. performance is - like one should expect - poor. nevertheless, with a good antenna and proper ground, **ee1000 project 1 crystal radio - weber state university** - ee1000 project 1 crystal radio overview in this project, we build an am crystal radio using a homemade capacitor and inductor. crystal radios often use earphones, which is convenient since they don't require a power source. **winding the coils for crystal radio - la favre** - winding the coils for crystal radio your crystal radio contains two coils, a tuning coil and an antenna coil. when you finish the radio, you will connect the antenna coil to an antenna and ground. the purpose of the antenna is to capture radio waves and convert them into alternating current. when the alternating current passes through the **crystal radio kit - tandyonline** - with your crystal radio kit you can tune in the am radio band (550-1600 khz) and you don't use batteries or ac power. it works on the same principle as the early crystal radio, however the crystal has been replaced with a more modern device called a diode. the function of a diode is basically the same as the old crystal but with the **haripriya n. bellam j0903 - california state science fair** - haripriya n. bellam the crystal radio j0903 objectives/goals the objective of this science fair project is to build a simple crystal radio from scratch. then experiment to see if it works without external power. if it does work, to then experiment how the radio's antenna length will affect its voltage, clarity and the number of stations it will ... **if you are like me, you may have - american radio relay league** - high sensitivity crystal set build a "crystal radio" that does not require an outside antenna or ground by using a new zero-voltage-threshold mosfet. bob culter, n7fki the circuit topology, which was motivated by a similar circuit using a jfet and battery gate bias configuration developed by david w. cripe, ne4am (formerly kc3zq).4 the **a compilation of crystal set drawings and schematics** - — shortwave crystal radio by dave schmarder a miniature, but selective and high performance crystal radio kit the description of a project intended for advanced science students and hobbyists and containing personal and controversial opinions and thoughts that you can skip by john fuhring long antenna more crystal radios by john tune r **crystal receivers for the mw am band** - place in the radio, whereupon radio frequency energy is converted into audio frequency signals. fig.3 shows a crystal receiver using an audio transformer to couple the headphones to the circuit. a transformer has two windings, the primary and the secondary. n is the turns-ratio, **construction and operation of a simple homemade radio ...** - [1] construction and operation of a simple homemade radio receiving outfit, circular of the bureau of standards, no. 120, u.s. government printing office, washington, dc, april 24, 1922. [2] construction and operation of a two-circuit radio receiving equipment with crystal detector, circular of the bureau **transistor museum™ history of** - on the crystal that provided the best radio wave detection. the sharp point of the "cat's whisker" would sometimes physically move out of the best performance area of the crystal, and would require frequent re-adjustment. because of the erratic performance of the cat's whisker, commercial radio companies began **xtal set society oat box crystal set - nebulaing** - xtal set society oat box crystal set by phil anderson, w0xi an oat box crystal set tunes the standard am radio band. this kit features a tapped coil, wound on a standard 5-inch diameter, round cereal oat box you provide. a detection diode, ear piece, resistor, and cap are included **variable frequency oscillators (vfos) - qrp arci** - variable frequency oscillators (vfos) sooner or later you'll become frustrated with being stuck on a few crystal-controlled ... it's difficult because, without the stability of a crystal, an ordinary rf oscillator will drift hundreds of hertz while you're sending. the fellow you're talking to probably has a modern

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transceiver with a ... **po-103j6 - peebles originals crystal set kits and tube ...** - your crystal radio listening pleasure. the fine little unit also fits the po-201 cabinet kit. this is the touch that gives it that real professional appeal. have fun, lets get serious and build the kit. wrap an even layer of tape over the entire l-1 coil. in a similar manner to the above, wind l-2 directly on-top of l-1. use 22ga. **using the 16 mhz crystal oscillator - nxp semiconductors** - the 16 mhz crystal oscillator module is designed to handle off-chip crystals that have a frequency of 4 $\times$ 16 mhz. the crystal oscillator™'s output is fed to the system pll as the input reference. the oscillator design generates low frequency and phase jitter, which is **crystal set analysis - radio** - crystal set analysis by berthold bosch, dk6yy (first published in german in 1993/94; see references at end. updated 12/03/2002) contents: 1.voltages and powers in set, 2.enna/earth as signal source, 3t with **1( (., '-;t;;: - cardinalscholaru** - understanding of the technology of crystal radio iaparts an understanding of the fund .. ental. of am radio reception. during the development of radio apparatus in the late 1890's and early 1900'. the u. s. patent office was kept **hbr-11 and 1962 arrl hf crystal filter ssb transceiver station - hbr-11 and 1962 arrl hf crystal filter ssb transceiver station** a vintage homebrew transmitter/receiver by kc9kep the 1960's were the years that ham radio made an impression on me. i've always found vacuum tube technology intriguing. like the old coal burning locomotives, they're high maintenance, inefficient and run hot, but they **hands-on digital communication episode 2: systemvue basics ...** - hands-on digital communication episode 2: systemvue basics and simulation of a crystal radio by dennis silage, k3ds k3ds@arrl a hands-on computer simulation of digital communication geared toward amateur radio helps you understand digital modulation methods with acronyms like ask, fsk and psk. in this second **crystal oscillator and crystal selection for the cc26xx ...** - crystal oscillator and crystal selection for the cc26xx and cc13xx family of wireless mcus 3.2.3 drive level the drive level of a crystal refers to the power dissipated in the crystal. the maximum drive level of a crystal is often specified in the data sheet of the crystal in  $\mu$ w. exceeding this value can damage or reduce the life of the crystal. **control mapping radio control setup - robotc** - from the transmitter with the matching crystal. radio transmitter the transmitter provides an interface for a human operator. it sends six channels' worth ... control mapping radio control setup (cont.) 2b. check receiver frequency find the receiver (rx) frequency crystal on the top of your receiver. make sure that **the am broadcast band - nebulaimg** - the am broadcast band while crystal sets are designed, built, and used for the am broadcast band and shortwave bands, the vast majority of hobbyists in the us focus their activities on the am band, defined by the fcc to span from 530 through 1,700 khz. as of january 1, 2008, there were roughly 4,793 am **experiment ix: am transistor radio: the transistor ...** - part c: connect your radio . 1. reassemble your crystal radio on a small breadboard, hook it to an antenna and tune it to a strong station. you can listen with your crystal earpiece or look at the fft to tune the radio. 2. measure the signal across the load (the earpiece). record the offset voltage and the peak to peak amplitude of the signal.

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