
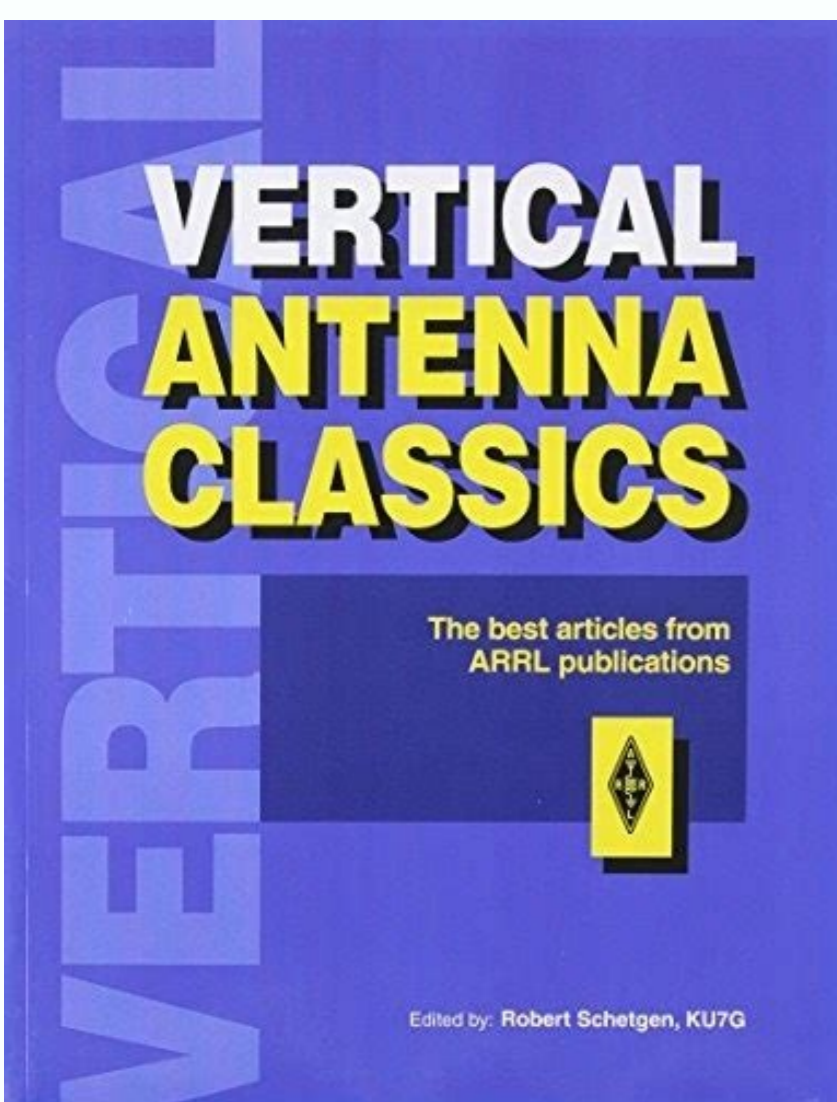
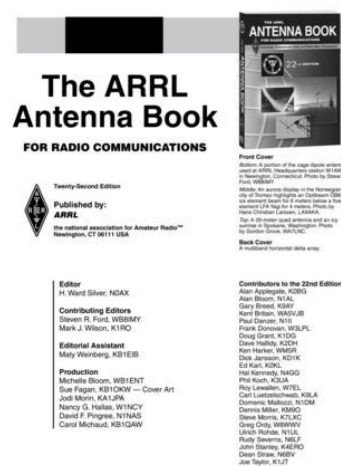
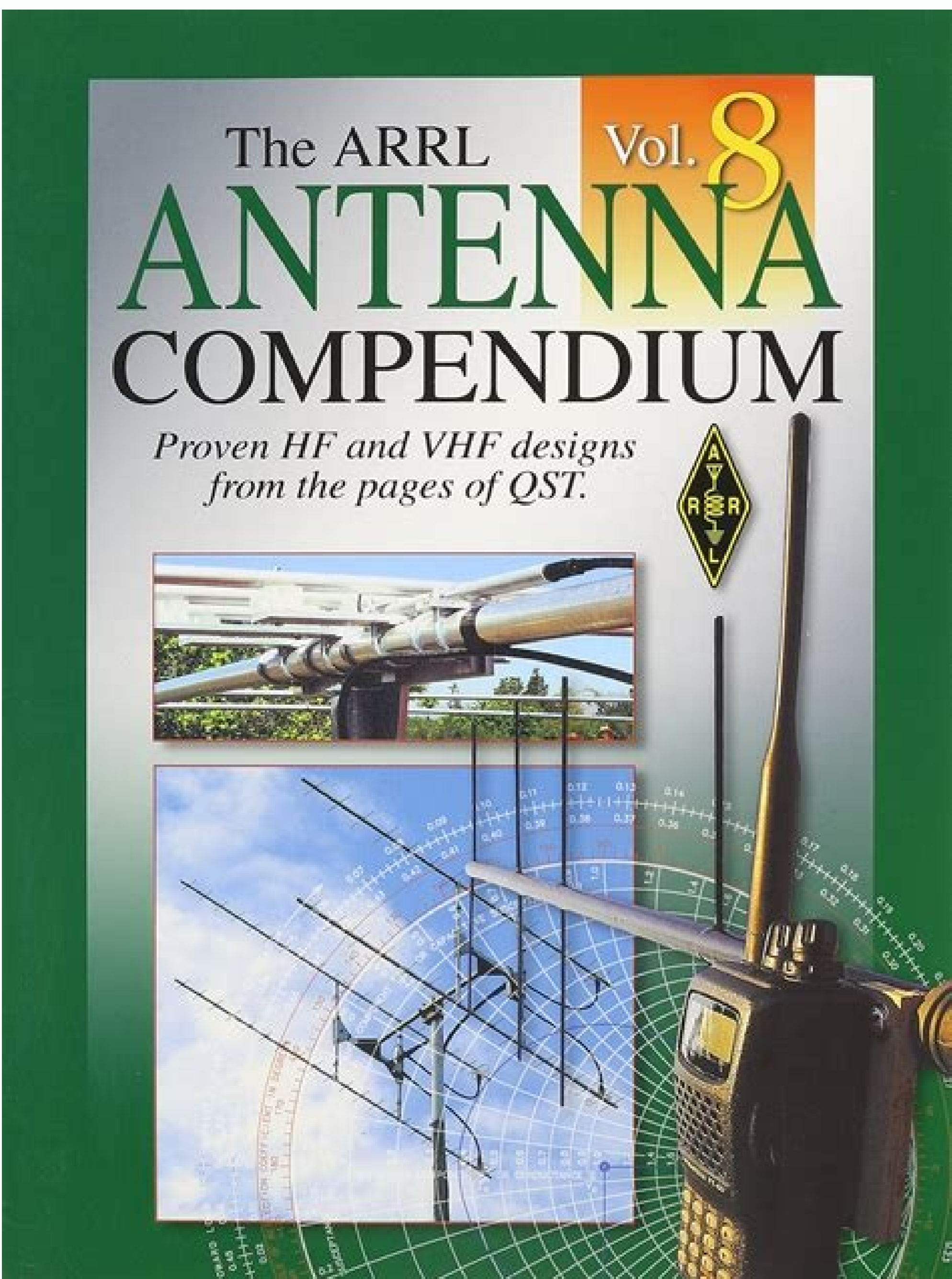
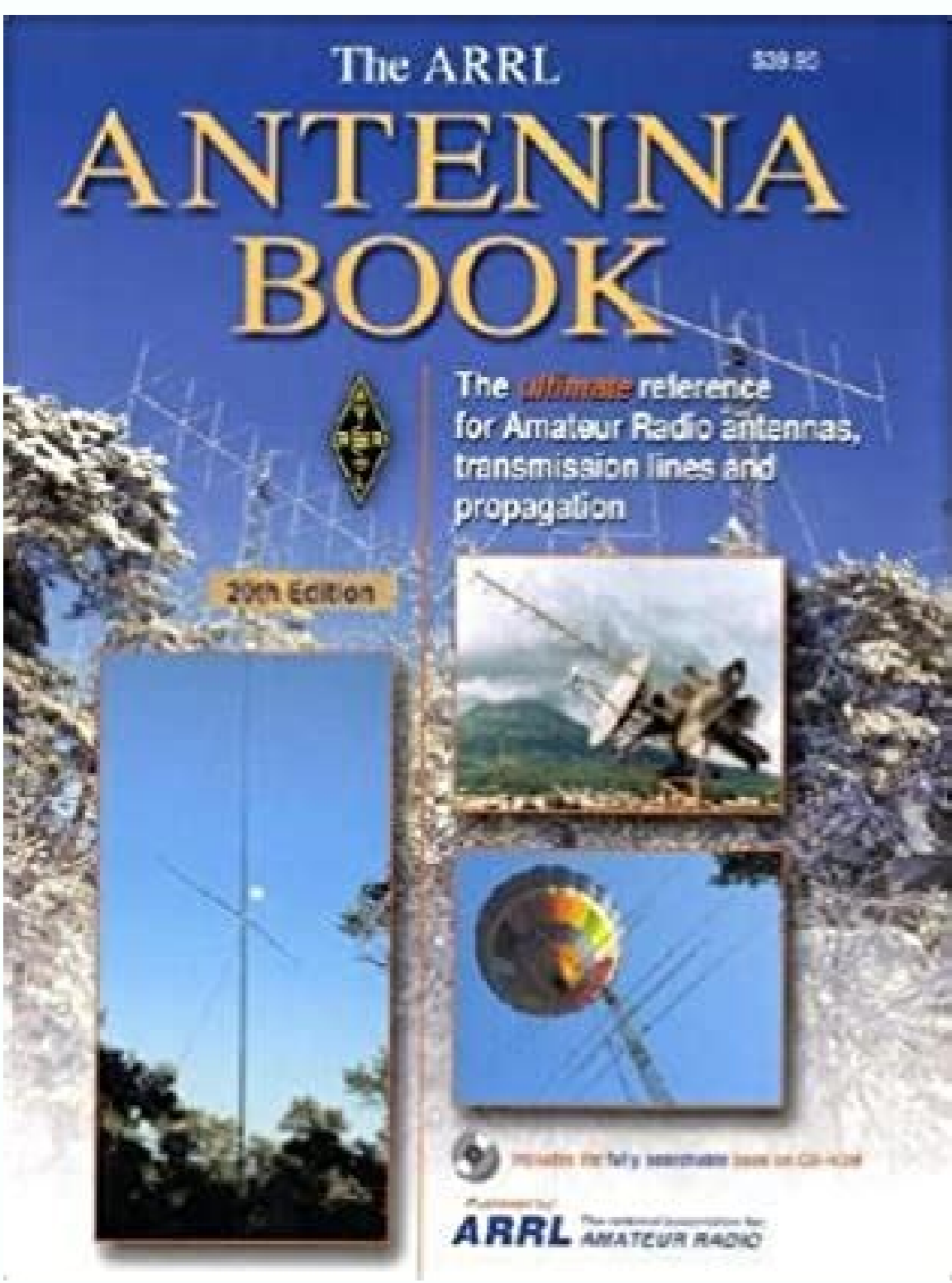
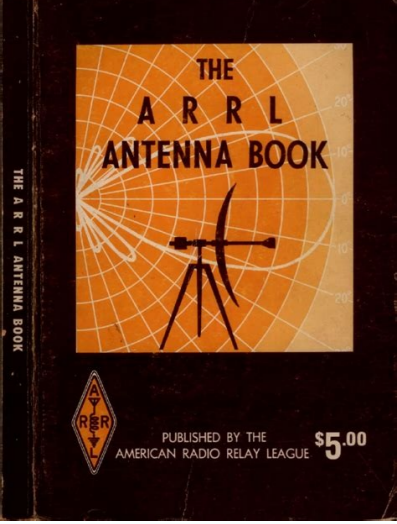


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The arrl antenna book pdf. The arrl antenna book.

ARRL-EZNEC Phased Array files - these files are referenced in the array design section by Roy Lewellan, W7EL and were mistakenly omitted from the download package for the book. The 45MHz crystal filter provides first IF selectivity and also second image attenuation. EFFLEN.ZIP - A software routine (written in FORTRAN) to calculate effective lengths of antenna elements. The dual-balanced modulator/demodulator (U2) use a circuit NJM2594 from NJR (Digi-Key). The preamplifier of the electret microphone uses a low noise op-amp TL081 (U3). SCALE and MAKEVOA These are MS-DOS programs and will not run under current versions of Windows. The emulator program DOSBox can be used to run old MS-DOS programs on new computers. It is an emulator designed to run old computer gaming software. Chapter 11 - HF Yagi and Quad Antennas GMMAMW4.ZIP - An improved version of the previous utility GMM2-1 that corrects a calculation problem that fails to find solutions to the calculations when the combination of the desired feed line impedance exceeds the product of the raw antenna resistance and the gamma step-up value. AAT.zip - software to analyze antenna tuners by Dean Straw, N6BV. The compressed file includes AAT.EXE - the software - plus a PDF instruction file, desktop icon, and associated LOG and SUM file examples. The program will not run under 64-bit operating systems. The program has been run successfully under versions of Windows that have 32-bit/16-bit compatibility, such as XP and Vista. It will not run under 64-bit versions of Win 7/8/10. The following list includes Windows-based software utilities that support various topics in the Antenna Book. The S-meter placed on the emitter of Q4 is indicating the receive signal level. This integrated circuit is still in production and can be requested from NXP as a sample, or get direct from Digi-Key. Chapter 4 - Radio Wave Propagation RngBrg.ZIP - software to compute the range and bearing from a point at one latitude/longitude to another. Q4 transistor is picking-up the RSSI output of the SA58640 and uses for the Automatic Gain Control (AGC). The compressed file includes MOBILE.EXE - the software - plus a desktop icon file. The last 455kHz IF stage (Q5) is a dual-gate MOSFET controlled by the AGC signal. The stability of this kind of resonator is acceptable, but if is available can be replaced with a 455kHz crystal. If you experience problems, try the "Run as Administrator" option when starting the program. There are no plans to update the software. Chapter 21 - Mobile and Maritime HF Antennas MOBILE.ZIP - Mobile whip design software by Leon Braskamp, AA6GL. SCALE.ZIP - see Chapter 1 above, © 1996-2015, Amazon.com, Inc. The SSB 455kHz ceramic filter is a CFJ455K from Murata (2.4 kHz bandwidth), or its affiliates RF SOFTWARE and UTILITIES (Freeware) RFSim99 - Free RF Design Software AppCAD - Free RF Design Tool WinSmith - Smith Chart software (for Windows 32b) TX-line - Transmission Line Calculator AWR - Anez2 - Free 2D and 3D Antenna Software - Qucs - Free RF Circuit Simulator - LTSpice - Free Spice Simulator - Sonnet Lite - Free EM Software - Feko Lite - Free EM Software - Ansoft Designer SV - Free RF Circuit Simulator - Ansys Electronics Desktop Student - Free EM Simulator - CST Student Edition - Free EM Simulator - AADE - Free Filter Design Software - TonneSoftware - Free RF Software's - SMWLink - Free MW Link and Satellite Software - ADIsimPLL - Free PLL Simulation Software - ADIsimRF - Free RF System Design Tools - FilterLab - Free Active Filter Design Software - CircuitMaker - Free Spice Simulator - Micro-Cap - Free Circuit Simulator - MPLAB-Mindi - Free Analog Simulator - SimSmith - Smith Chart Tool - Smith v4.1 - Smith Chart and S-Parameter Tool - RF & Microwave - Graphical Design Tools - Amanogawa - Interactive RF Java Applets - DL5SWB - Toroid Ring Core Calculator - Toroids.info - Online Toroid Calculator - Saturn - Free PCB Design Toolkit - Dshal - Free Crystal Ladder Filter Software - Afar Communications - RF Link Budget Calculator - Murata - Online RF Components Characteristics - Johanson - RF Components Modeling Program - Afreet Software Inc. The presentation is accompanied by an Excel spreadsheet that allows the student to experiment and observe the effects of matching. The concept of impedance matching is explained by Lou Ernst, WA2GKH in a two-part tutorial "Load to Source Matching". The tutorial consists of a text-and-figures presentation explains the concept and process. In CW mode the biases of the monolithic amplifiers U7 and U6 are switched ON and OFF, keying the carrier signal. No additional documentation is available beyond what, if any, is provided with the software. Unless otherwise noted, all the software listed here can be downloaded to your hard drive, unzipped if necessary, and run directly from the Windows Start menu without requiring installation in the Windows system. First IF use a 45MHz Monolithic Crystal filter, model that was used in old analog cellular phones (same as the 44.545 MHz crystal). EZNEC - previous editions of the Antenna Book included a version of EZNEC-ARRL which ran special model files. Click here to find an All-Mode version of the 50MHz transceiver. Chapter 1 - Antenna Fundamentals SCALE.ZIP - a software utility to change the frequency of YW antenna models while compensating for element diameters and taper. Models from other software can be used as described in the documentation included with the utility. This is a cheap filter (compared to other crystal or electromechanical filters), but with good selectivity performances. Schematic Diagram Block Diagram Installing and Running HFTA, TLW, and YW The programs HFTA, TLW, and YW are known to have difficulty running on 64-bit versions of Windows operating systems. The entire package, including antenna models, is available as a downloadable zip file at the following link: HFTA Angle of Arrival files Microdem is no longer able to access the national data files. To obtain terrain profiles, go to k6tu.com and generate the files using the online interface to access the locally stored data. Chapter 6 - Multielement Arrays Arrayfeed1.zip - this is a link to software by W7EL to design feed systems for phased array using transmission lines. There are three files - a readme file, a help file (.chm), and the program itself (.exe). Previous editions contained an incomplete ZIP file that omitted the .exe file. All three elements of the program may be downloaded from the author's website. The audio amplifier (U4) is a LA4425A. Chapter 26 - Building Antenna Systems and Towers Hal Kennedy, N4GG, constructed a simple Excel spreadsheet to calculate the clearance between Yagis and guy wires on a guyed tower. Calculations are simplified by the assumption that all guy wires, booms, and elements are straight (no sag). The following PDF instruction files are provided here as a convenience to users of the software provided in the Antenna Book downloadable supplemental information. An LC two-pole BPF is used at the output of the RF mixer (U8) to filter the desired 50MHz signal. If you are unable to install the software from a CD-ROM, transfer the file to a flash drive and then install it from the flash drive. It may also be possible to copy, not install, the file to the computer's hard drive and then install it from the hard drive but the flash drive approach has been the most reliable option. The Beat Frequency Oscillator (BFO) (Q6) uses for resonator a standard 455kHz ceramic resonator. The Variable Frequency Oscillator (VFO) is a very stable Varicap FET type oscillator (Q7), followed by a buffer amplifier (Q8, Q9). The IF system SA58640 from NXP is used in the second conversion of the receiver. Chapter 7 - Log Periodic Antennas - Log Periodic Element and Phase Line Calculator - Spreadsheet to calculate LPDA element lengths and spacings, along with phase line impedance, by Dennis Miller, KM90. Chapter numbers refer to the primary chapter in the ARRL Antenna Book that references the software. They were developed for and run on 32-bit versions of Windows operating systems. Dual-FET RF mixer (Q2, Q3) converts the 50MHz signal to the first IF, which is on 45 MHz. An LC BPF filter, is placed before the RF mixer to attenuate the image frequency. This spreadsheet is in Excel format (XLS) and was last updated on 12 Sep 2011. The dual-gate mixer (Q10) (BF998) up-converts the 455kHz SSB signal to 45MHz IF. In SSB mode a 10k potentiometer is used to adjust the carrier suppression of the DSB modulator (U2). The code was developed by Bill Wortman, N6MW and generously donated to the ARRL and the readers of the Antenna Book, ARRL Handbook, and Low-Band DXing by ON4UN. The ARRL also wishes to thank Greg Ordy, W8WVWV for testing the code. HFTA - Instructions YW - Instructions TLW - Instructions The package of angle-of-arrival files created by Dean Straw, N6BV, in support of HFTA terrain analysis may have been partially installed or omitted entirely. A 45 MHz Monolithic Crystal filter is used at the output of the mixer to filter the desired signal, and two amplifiers (U7, U6) are used to boost the signal to feed the TX RF Mixer U8 (SBL-1). These stages could drive a higher power amplifier if it is necessary. Q11 and Q12 are the last stages of amplification on transmit path. Free Ham Radio Software - Coil32 - Online Inductor Calculators - MultiSIM Education - Free Spice Simulator - RF Wireless World - RF Converters and Calculators - Pasternack - RF Calculators and Convertions - Planar Spiral Coil Inductor Calculator - Online LC Filter Design - VAADSY - Online RF Calculators - VK2ZAY - Impedance Calculators - Mantaro - Qorvo - RF Design Calculators and Tools - SIMetrix/SIMPLIS - Free Circuit Simulator - NgSpice - Free Mixed Mode Simulator - All About Circuits - RF Tools and Calculators - PCB Calculator - Impedance, Crosstalk, Current - Coaxial Cable and Matched Loss Calculator - Online Calculators for DIY Coil Winding - Micro-Cap - Free Spice and Schematic Software - OwenDuffy - Online RF Calculators - Single Layer Aircore Inductor Calculator - Planar Spiral Coil Inductor Design Calculator - ApogeeWeb - Online Circuit and System Calculators - ApogeeWeb - SAF - GPS Distance, Elevation, and Fresnel Zone Calculator Page 2 50MHz SSB/CW Transceiver Iulian Rosu, YO3DAC / VA3IUL - On receive side the signal from the antenna, passed through a Low Pass Filter and TX /RX switch, is amplified by the dual-gate LNA (Q1) BF998. Chapter 23 - Transmission Lines Two-Wire Feed Line and Radiated Power Calculator - Spreadsheet to calculate the impedance of parallel-conductor line and the amount of radiated power by Dennis Miller, KM90 This spreadsheet is in Excel format (XLS) and was last updated on 12 Sep 2011. The circuit is used as a Product Detector in receive mode, and as a Double Side Band (DSB) modulator in transmit mode. The internal crystal LO on 44.545 MHz is used for both conversions, on receive and transmit. The second 455kHz filter (also from Murata) is a common 455kHz ceramic filter used in most AM/FM broadcast radios. The DSB signal from the modulator is amplified by a monolithic amplifier U9 (MAR-6) and routed through the SSB filter CFJ455K filter, which is the same filter used on the receive path. This software has been replaced by the demo version of EZNEC 6.0 which available online from the EZNEC website. The demo version of EZNEC will run the EZNEC-ARRL models without modification. In CW mode a 1k resistor is used for carrier through. To switch the SSB filter between RX and TX I am using 4xBA244 diodes.

One of the most helpful items was being able to use a SB-104A schematic that was marked up with the proper voltage levels and used by the Technicians at Heathkit. The schematic is now available online as a 1.5Meg ".pdf" file. If you don't have a ".pdf" reader, you can download Adobe Acrobat Reader 4.0 (free) off the internet.

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