Introduction to the *1999 ARRL Periodicals CD*

This *1999 ARRL Periodicals CD* contains every page of every 1999 issue of *QST*, *QEX* and *NCJ* (*National Contest Journal*) magazines. In addition, it includes folders that contain additional information such as printed-circuit board layout drawings, parts lists, and source-code for some software projects.

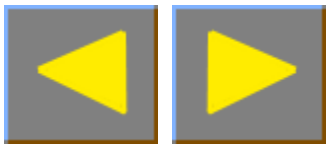
In this introduction you will find tips on how to use this CD-ROM and listings of additional included files: Expanded Lab Test Reports of items reviewed in *QST* Product Review, software and circuit-board files from *QST*, and software and circuit-board files from *QEX*.

Using this CD-ROM

This CD-ROM is viewed using Adobe's *Acrobat Reader* software, version 4.0. The software (both Windows and Macintosh versions) is included on the CD-ROM, and installation instructions are available in the booklet enclosed in the CD-ROM case.

The book and the companion files include hyperlinks. These links will appear in blue or green text. Clicking on the text of a hyperlink will cause *Acrobat Reader* to display another, related part of the book or, in some cases, will launch your Web browser to view a page on the World Wide Web. (See the *Acrobat Reade*r Help documentation for information on configuring this feature.) In general, we have tried to provide a hyperlink to any referenced material that is on a different page from the one containing the reference.

The version of *Acrobat Reader* used with this CD-ROM includes Acrobat Search capability, which allows rapid full-text search of the entire book. This functions as an instant index for every chapter and word in the book. We strongly recommend that you take a few minutes to view the on-line documentation available from *Acrobat Reader*'s Help menu.

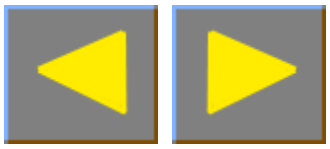


Full-Text Searching

The on-screen icons, or buttons, in the *Acrobat Reader* tool bar associated with full-text search are located at the right side of the tool bar. As an example, let's use this very powerful facility to find all instances of the word "reactance" throughout the book.

Click on the **Full-Text Search** icon  . (Note that this is different from the nearby **Find** icon ). Under **Options**, make sure that the **Word Stemming** checkbox is unchecked. Now, type in the word "rover" and then either press the **Enter** key or click on the **Search** button. The program will search for a while for all instances of the word "rover" and will present you with a list box showing all issues that contain this word. Select **January 1999 *QST*** by double clicking on it. The first occurrences of "rover" (on page 87) will be highlighted. Click the search **Next** icon  to show the next occurrence of "rover," on page 88.

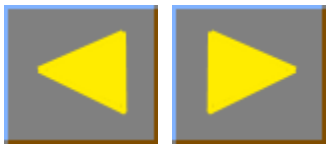
You can adjust the way that found text items are highlighted using the **File|Preferences|Search** menu item.



Now, click back on the Full-Text Search Continue icon, check the **Word Stemming** checkbox and redo the search. Again, select **January 1999 *QST***. Note that the program has highlighted not only the occurrences of "rover," but also the occurrences of “rovers." This is because **Word Stemming** was selected for the search, and variations on the root “rover” have been found. Again, if you wish to limit the search to exact matches for “rover,” uncheck the word-stemming checkbox and redo your search.

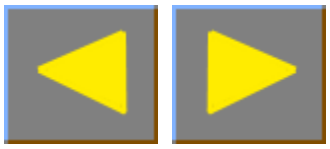
Other than not allowing word stemming, another way to limit a search is to specify more than one word. For example, if you specify “rover champion” for the full-text search, the number of occurrences will be much smaller than for just “rover” alone. You can use the Search Results icon  to choose another issue for viewing, and the Next and Previous search buttons  to navigate through the found items. The **Search** submenu on the **Tools** menu has additional search commands.

The full-text search capability gives you a very powerful tool for finding all sorts of information on the CD-ROM!



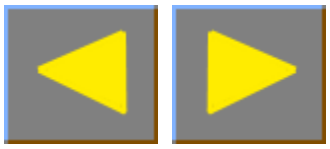
QST Product Review Expanded Lab Reports

Product	*QST* Issue
Kenwood TS-570S(G) HF/6-Meter Transceiver	May 1999
Yaesu VX-5R Tri-Band 6m/2m/70cm FM Hand-Held Transceiver	May 1999
Yaesu FT-100 MF/HF/VHF/UHF All-Mode Transceiver	June 1999
ICOM IC-706MKIIG HF/VHF/UHF Transceiver	July 1999
Yaesu FT-90R Dual-Band FM Mobile Transceiver	September 1999



QST Files

Month	Folder	Article and Description
Jan 1999	fasse	*Rotator Magic*, by Gerald Fasse, W8GF, p 34. Software for the Basic Stamp, including the source code, a calibration check list and more detailed assembly instructions for an improved control box for Ham-M rotators.
Feb 1999	hag2mrx	*A Synthesized 2-Meter FM Receiver with PC Control*, by Steve Hageman, p 35. A *Windows 95/98* control program and the object and source code for a PC controlled 2-meter receiver project.
Jun 1999	quick	*The QUICK: QRP Under Integrated Control from the Keyer*, by Rod Kreuter, WA3ENK, p 43. Source code for the PIC and two *.bmp* files for the PC-board.
Jul 1999	870stamp	*Basic Stamp Remote-Base Controller Adapted for Kenwood TS-870* (H&K), by Robert J. Molloy, KD2UJ, p 64. Source code for programming the Basic Stamp for remote controlling the Kenwood TS-870.
	hfvhfwat	*A Microprocessor Controlled Multichannel Wattmeter for HF, VHF and UHF*, by Dwayne Kincaid, WD8OYG, p 42. The software, including the source code, for programming the 68HC11 microprocessor.
Aug 1999	ik3oil2	*A PIC16F84-Based CW Decoder*, by Francesco Morgantini, IK3OIL, p 37. Updated software for programming the PIC16F84 and the PC-board layout diagram in *Circad.*
Sep 1999	byqk	*Beyond the QUICK*, by Rod Kreuter, WA3ENK, p 42. PC-board artwork and parts placement diagrams in *.pdf* and *.hgl* for accessory circuits for a keyer and transmit/receive sequencer (see Jun 1999 *The QUICK: QRP Under Integrated Control from the Keyer*, p 43).
Nov 1999	hamweb09	*HamWeb: A New Approach to Mobile Data Services*, John Hansen, W2FS, p 33. A client/server software program for accessing Internet data via Amateur Radio.
Dec 1999	keypad	*A Direct Frequency Entry Keypad for ICOM Transceivers*, by John Hansen, W2FS, p 38. Source code for programming the PIC.
	keypad3	*A Direct Frequency Entry Keypad for ICOM Transceivers*, by John Hansen, W2FS, p 38. An updated version of the source code, now including automatic mode switching, for programming the PIC.
	picswr	*A PIC SWR Meter*, by Bert Kelley, AA4FB, p 40. The PIC code in ASM and HEX.



QEX Files

Issue	Folder	Article and Description
Jan/Feb 1999	ssbtune	*Tune SSB Automatically*, by Robert Dick. p 9. Software (source and binary).
	dds_vfo	*A Temperature-Compensated DDS VFO*, by Curtis Pruess, WB2V, p 42. Source and object code for DDS VFO (from 7/97) plus source code for temperature compensation via PIC.
May/Jun 1999	99rf05	*RF, "Transmission Lines and Amateur Radio Designer,"* by Zack Lau, W1VT, p 58. Transmission-line modeling data for *ARRL Radio Designer.*
Jul/Aug 1999	bing9907	*Center-Loaded Whip Antenna Loss*, by Grant Bingeman, KM5KG, p 17. Antenna-description file and radiation-pattern image.
	sabin799	*Diplexer Filters for an HF MOSFET Power Amplifier*, by William E. Sabin, W0IYH, p 20.Filter-construction information.
	smith3d	*Creating 3-D Antenna Radiation-Pattern Plots*, by Doug Smith, KF6DX, p 40. Sample 3D radiation-pattern plot with *QuickBasic* 4.5 source.
	zav9907	*The Multiband Extended Double Zepp and Derivative Designs*, by Robert Zavrel, W7SX, p 34. Antenna-description files and pattern images.
Sep/Oct 1999	bedf0999	*The Bedford Receiver: A New Approach*, by Rodney Green, VK6KRG, p 9. Images of part-placement diagrams (dxf and jpg).
	9909wade	*Parabolic Dish Feeds—Phase and Phase Center*, by Paul Wade, W1GHZ, p 24. EPS and PDF files of Figures (see Readme.txt in folder).
	evmdop	*Narrow-Band Doppler Spectrum Techniques for Propagation Study*, by Peter Martinez, G3PLX, p 45. *Windows*-based dopplergram program for DSP56002EVM.
Nov/Dec 1999	1199sabn	*A 100-W MOSFET HF Amplifier*, by William E. Sabin, W0IYH, p 31. Schematic and parts placement for 100-W PA.
	step1199	*A Stable, Low-Noise Crystal Oscillator for Microwave and Millimeter-Wave Transverters*, by John Stephensen, KD6OZH, p 11. PIC source code to control an MC145158 PLL IC.
	capqex	*RF, "Accurately Modeling Capacitor Q in ARRL Radio Designer,"* by Zack Lau, W1VT, p 55. *ARD* circuit file to model capacitor Q.