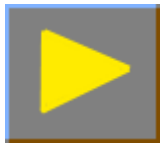
# Introduction to the *2004 ARRL Periodicals CD*

This *2004 ARRL Periodicals CD* contains every page of every 2004 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, source-code for some software projects. Also included are 2004 Section News, Contest Soapbox and Results.

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 files from *QST*, and software and files from *QEX*.

Included in the Contest Results and Soapbox sections is additional information about contests that were reported in 2004 issues of *QST*. This supplemental information, published on the ARRL Web site, includes contest line scores and Soapbox. Where available, there are two views of the line scores—a comma-separated file (.csv) showing all participants sorted by score, and a version sorted by call area, location and entry category.

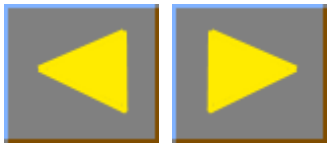
The Section News area of this CD-ROM includes monthly highlights provided by Section Managers throughout the year. These highlights are published on the ARRL Web site and emailed to members who have signed up to receive news and information from their Division Director or Section Manager. (Members may sign up for this service via the Member Data Page on the Members Only Web site.) Note that all sections do not publish Section News reports every month.



## Using this CD-ROM

This CD-ROM is viewed using Adobe's *Acrobat Reader* software, version 6.0. 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 and at the end of this introduction.

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 issue and word in the collection. We strongly recommend that you take a few minutes to view the on-line documentation available from *Acrobat Reader*'s Help menu.

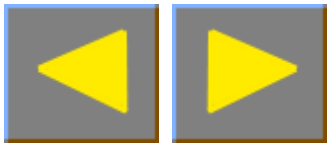


# Full-Text Searching

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 2004 *QST*** by double clicking on it. The first occurrences of "rover" (on page 99) will be highlighted. Click the search **Next** icon  to show the next occurrence of "rover," on page 100.

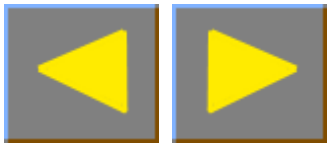
You can adjust the way that found text items are highlighted using the **File|Preferences|Search** menu item.



Now, click back on the Full-Text Search Continue icon, check the **Word Stemming** checkbox and redo the search. Again, select **January 2004 *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.

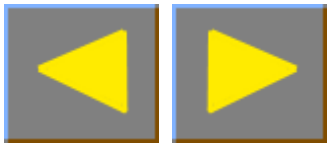
Other than not allowing word stemming, another way to limit a search is to specify more than one word. For example, if you specify “rover champion” for the full-text search, the number of occurrences will be much smaller than for just “rover” alone. You can use the Search Results icon  to choose another 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!



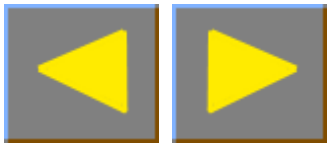
# *QST* Product Review Expanded Lab Reports

| Product | *QST* Issue |
| --- | --- |
| Ten-Tec Orion (565) | January |
| ICOM IC-7800 | August |

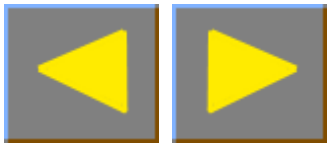


## *QST* Files

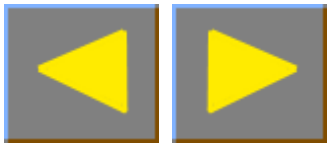
| Month | Folder | Article and Description |
|---|---|---|
| February | pi-attn | *A Poor Man's QRP*, by Bob Schetgen, KU7G, p75. *Excel* spreadsheet to calculate pi-attenuator values. |
| February | cebik0204 | *Power and Antenna Gain on 60 Meters*, by L. B. Cebik, W4RNL, p36. Antenna modeling files. |
| March | icom-sgc interface | ICOM and SGC—A Perfect Match, by Bob Lewis, AA4PB, p33. Firmware flow-chart, object code hex file, and source code text file. |
| April | 6 meter moxon | *A 6 Meter Moxon Antenna*, by Allen Baker, KG4JJH, p65. Drawings, photos and plots. |
| April | 04tc04 | *Technical Correspondence: Power Factor*, by Alan Bloom, N1AL, p82. Calculations. |
| May | smart keyer | *The Smart Keyer Lite*, by Joseph Lunsford, N4YG, p42. Instructions, board patterns, and hex code. |
| June | drake-synth | *Give That Drake Receiver A New Lease on Life*, by Steven C. Hageman, p28. Drake synthesizer source code, programming files and PCB assembly drawings. |



| Month | Folder | Article and Description |
|---|---|---|
| June | 0406cebik | *Technical Correspondence: Notes on Modling LPDAs in MININEC*, by L. B. Cebik, p72. MININEC model of the K8CU LPDA. |
| June | 6mtransverter | *The Ten-Tec 6 Meter Transverter on 12 or 17 Meters*, by William S. Berger, K6INJ, p40. |
| July | ctcss_encoder | *A CTCSS Tone Encoder with Morse Code Readout*, by Gary S. Kath, N2OT, p 32. Source and compiled code. |
| August | code_player | *The Code Player*, by Bob Adams, W6BEG, p28. Source and text files. |
| September | hapirat | The Hapirat—An Audio and Computer Control Panel, by Mark Mandelkern, K5AM, p28. |
| November | boost_reg | A 12 V dc Boost Regulator for Battery Operation, by Daniel R. Kemppainen, p37. Figures and construction details. |
| November | 04tc11 | *Technical Correspondence: A Multiband VFO Using the AD-9830 Evaluation Board*, by Dan Cross-Cole, N4ENM, page 72. AD-9830 control source files. |

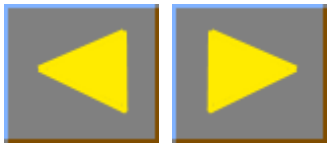


| Month | Folder | Article and Description |
|---|---|---|
| December | cope1204 | *Programming for the Pocket PC*, by M. Peri Cope, p38. JavaScript dipole calculator. |
| December | 23cm_amp | *A Water Cooled Amplifier for 23 cm*, by Jim Klitzing, W6PQL, p28. Schematic and construction details. |

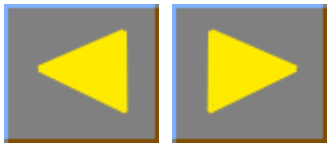


## *QEX* Files

| Issue | Folder | Article and Description |
|---|---|---|
| January/ February | 0311kopski | *A Simple RF Power Calibrator*, by Bob Kopski, K3NHI, p51. Parts placement diagram. |
| March/ April | 0403rf | *RF: Generating a 1296 MHz Signal*, by Zack Lau, W1VT, p56. Signal source. |
| March/ April | 0403evans | *Tapped-Capacitor Matching Design*, by Randy Evans, KJ6PO, p46. *Excel* worksheet to calculate design values for tapped-capacitor matching networks. |
| March/ April | 0403buxton | *Dominant-Element-Principle Loaded Dipoles*, by Al Buxton, W8NX, p20. GWBASIC programs for multiband dipoles. |
| March/ April | 0403miles | *A Versatile Hybrid Synthesizer for UHF/Microwave Projects*, by John Miles, KE5FX, and Richard Hosking, VK6BRO, p3. UHF Microwave synthesizer. |
| May/ June | 0405lichtel | *Implementing a USB Equipment Interface Using the Microchip PIC16C745*, by Dick Lichtel, KD4JP, p3. USB firmware user's guide. |



| Issue | Folder | Article and Description |
|---|---|---|
| May/ June | 0405sieg | *The Uncoder: An Automatic Universal CTCSS Tone Encoder/Decoder*, by Chris Sieg, WA3LDI, p39. Code for programming microprocessor. |
| May/ June | 0405gardner | *A Ruggedized, General Purpose 100 kHz-2 GHz Low-Noise RF Preamplifier*, by Glen E. Gardner Jr, AA8C, p9. Graphics files of figures 2-8. |
| July/ August | vna | *A Low-Cost 100 MHz Vector Network Analyzer with USB Interface*, by Tom McDermott, N5EG, and Karl Ireland, p3. Host and target source and schematic. |
| July/ August | remote impedance measurement | *Improved Remote Antenna Impedance Measurement*, by Robert Lytle, N3FT, p15. Improved remote antenna-impedance measurement spreadsheet. |



## Installing Adobe *Acrobat Reader*

While the *Acrobat Reader* program used to view the *Periodicals CD* is normally run directly from the CD, there is a copy included on the CD-ROM that you may choose to install on your hard disk for viewing other files. Installing Adobe *Acrobat Reader* is optional.

**To install *Acrobat Reader* for *Windows*:**

1. Select **Run** from the *Windows* **Start** menu.
2. Type **d:\Acrobat\setup** (where d: is the drive letter of your CD-ROM drive; if the CD-ROM is a different drive on your system, type the appropriate letter) and press **Enter**.
3. Follow the instructions that appear on your screen.

**To install *Acrobat Reader* for the Macintosh:**

1. Open the **2004 ARRL Periodicals CD** icon on the desktop.
2. Double-click the **Acrobat Reader 5.0** folder, and then double-click the **Acrobat Reader Installer** icon.
3. Follow the instructions that appear on your screen.