

## Articles and References

1. D. Benson, "[Freq-Mite — A programmable Morse Code Frequency Readout](#)," *QST*, Dec, 1998, pp 34-36.
2. D. Bramwell, "[Understanding Modern Oscilloscopes](#)," *QST*, Jul, 1976, pp 18-19.
3. D. Bramwell, "[An RF Step Attenuator](#)," *QST*, Jun, 1995, pp 33-34.
4. G. A. Breed, "[A New Breed of Receiver](#)," *QST*, Jan, 1988, pp 16-23.
5. R. Campbell, "[Binaural Presentation of SSB and CW Signals Received on a Pair of Antennas](#)," *Proceedings of the 18th Annual Conference of the Central States VHF Society*, Cedar Rapids, IA, Jul, 1984.
6. R. Campbell, "[Getting Started on the Microwave Bands](#)," *QST*, Feb, 1992, pp 35-39.
7. R. Campbell, "[High Performance Direct Conversion Receivers](#)," *QST*, Aug, 1992, pp 19-28.
8. R. Campbell, "[No Tune Microwave Transceivers](#)," *Proceedings of Microwave Update '92*, Rochester, NY, Oct, 1992, ARRL Publication number 161, pp 41-54.
9. R. Campbell, "[High Performance Single-Signal Direct Conversion Receivers](#)," *QST*, Jan, 1993, pp 32-40.
10. R. Campbell, "[A Multimode Phasing Exciter for 1 to 500 MHz](#)," *QST*, Apr, 1993, pp 27-31.
11. R. Campbell, "[Single-Conversion Microwave SSB/CW Transceivers](#)," *QST*, May, 1993, pp 29-34.
12. R. Campbell, "[A Single Board No-Tune Transceiver for 1296](#)," *Proceedings of Microwave Update '93*, Atlanta, GA, Sep, 1993, ARRL Publication number 174, pp 17-38.
13. R. Campbell, "[Simply Getting on the Air from DC to Daylight](#)," *Proceedings of Microwave Update '94*, Estes Park, CO, Sep, 1994, ARRL Publication number 188, pp 57-68.
14. R. Campbell, "[Subharmonic IF Receivers](#)," reprinted from the *North Texas Microwave Society Feedpoint* in *Proceedings of Microwave Update '94*, Estes Park, CO, Sep, 1994, ARRL Publication number 188, pp 225-232.
15. R. Campbell, "[A VHF SSB-CW Transceiver with VXO](#)," *Proceedings of the 29th Conference of the Central States VHF Society*, Colorado Springs, CO, Jul, 1995, ARRL Publication number 200, pp 94-106.
16. R. Campbell, "[The Next Generation of No-Tune Transverters](#)," *Proceedings of Microwave Update '95*, Arlington, TX, Oct, 1995, ARRL Publication number 208, pp 1-22.

17. R. Campbell, "[A Small High-Performance CW Transceiver](#)," *QST*, Nov, 1995, pp 41-46.
18. R. Campbell, "[Direct Conversion Receiver Noise Figure](#)," *QST*, Technical Correspondence, Feb 1996, pp 82-85.
19. R. Campbell, "[Microwave Downconverter and Upconverter Update](#)," *Proceedings of Microwave Update '98*, Estes Park, CO, Oct, 1998, ARRL Publication number 241, pp 34-49.
20. R. Campbell, "[A Binaural IQ Receiver](#)," *QST*, Mar, 1999, pp. 44-48.
21. R. Campbell, "[LO Phase Noise Management in Amateur Receiver Systems](#)," *Proceedings of Microwave Update '99*, Plano, TX, Oct, 1999, ARRL, Publication number 253, pp 1-12.
22. R. Campbell, "[Medium Power Diode Frequency Doublers](#)," *Proceedings of Microwave Update '99*, Plano, TX, Oct, 1999, ARRL, Publication number 253, pp 397-406.
23. B. Carver, "[High Performance Crystal Filter Design](#)," *Communications Quarterly*, Winter, 1993, pp 11-18.
24. B. Carver, "[The LC Tester](#)," *Communications Quarterly*, Winter, 1993, pp 19-27.
25. B. Carver, "[A High Performance AGC/IF Subsystem](#)," *QST*, May, 1996, pp 39-44.
26. R. Fisher, "[Twisted-Wire Quadrature Hybrid Directional Couplers](#)," *QST*, Jan, 1978, pp 21-23.
27. J. Grebenkemper, "[The Tandem Match – An Accurate Directional Wattmeter](#)," *QST*, Jan, 1987, pp 18-26.
28. R. Hayward, "[The Ugly Weekender II: Adding a Junk Box Receiver](#)," *QST*, Jun, 1992, pp 27-30.
29. W. Hayward and R. Bingham, "[Direct Conversion; A Neglected Technique](#)," *QST*, Nov, 1968, pp 15-17.
30. W. Hayward and J. Lawson, "[A Progressive Communications Receiver](#)," *QST*, Nov, 1981, pp 11-21.
31. W. Hayward and R. Hayward, "[The Ugly Weekender](#)," *QST*, Aug, 1981, pp 18-21.
32. W. Hayward, "[The Double Tuned Circuit: An Experimenter's Tutorial](#)", *QST*, Dec, 1991, pp 29-34.
33. W. Hayward, "[Reflections on the Reflection Coefficient: An Intuitive Examination](#)," *QEX*, Jan, 1993, pp 10-23.
34. W. Hayward, "[Measuring and Compensating Oscillator Frequency Drift](#)," *QST*, Dec, 1993, pp 37-41.
35. W. Hayward, "[Electronic T/R Switching](#)," *QEX*, May, 1995, pp 3-7.

36. W. Hayward, "[Refinements in Crystal Ladder Filter Design](#)," *QEX*, Jun, 1995, pp 16-21.
37. W. Hayward, "[Extending the Double Tuned Circuit to Three Resonators](#)," *QEX*, Mar/Apr, 1998, pp 41-46.
38. W. Hayward and T. White, "[A Tracking Signal Generator for Use with a Spectrum Analyzer](#)," *QST*, Nov, 1999, pp 50-52.
39. W. Hayward and T. White, "A Spectrum Analyzer for the Radio Amateur."  
[Part 1](#): *QST*, Aug, 1998, pp 35-43;  
[Part 2](#): *QST*, Sep, 1998, pp 35-43.
40. W. Hayward and T. White, "[The Micromountaineer Revisited](#)," *QST*, Jul, 2000, pp 28-33.
41. W. Hayward and R. Larkin, "[Simple RF-Power Measurement](#)", *QST*, Jun, 2001, pp 38-43.
42. N. Heckt, "[A PIC-Based Digital Frequency Display](#)," *QST*, May, 1997, pp 36-38.
43. H. Johnson, "[Helical Resonator Oscillators](#)."
44. R. Larkin, "The DSP-10: An All-Mode 2-Meter Transceiver Using a DSP IF and PC-Controlled Front Panel."  
[Part 1](#): *QST*, Sep, 1999, pp 33-41;  
[Part 2](#): Oct, 1999, pp 34-40;  
[Part 3](#): Nov, 1999, pp 42-45.
45. R. Larkin, "[An 8-Watt, 2-Meter Brickette](#)," *QST*, Jun, 2000, pp 43-47.
46. R. Lewallen, "[An Optimized QRP Transceiver](#)," *QST*, Aug, 1980, pp 14-19.
47. R. Lewallen, "[A Simple and Accurate QRP Directional Wattmeter](#)," *QST*, Feb, 1990, pp 19-23.
48. J. Makhinson, "[A Drift-Free VFO](#)," *QST*, Dec, 1996, pp 32-36.
49. J. Makhinson, "[DEMPHANO, A device for measuring phase noise](#)," *Communications Quarterly*, Spring, 1999, pp 9-17.
50. J. Reisert, "[VHF/UHF Frequency Calibration](#)," *Ham Radio*, Oct, 1984, pp 55-60.
51. D. Rutledge, et al, "High-Efficiency Class-E Power Amplifiers."  
[Part 1](#): *QST*, May, 1997, pp 39-42;  
[Part 2](#): Jun, 1997, pp 39-42.
52. W. Sabin, "[Measuring SSB/CW Receiver Sensitivity](#)," *QST*, Oct, 1992, pp 30-34.
53. W. Sabin, "[A Calibrated Noise Source for Amateur Radio](#)," *QST*, May, 1994, pp 37-40.
54. W. Sabin, "[Diplexer Filters for an HF MOSFET Power Amplifier](#)," *QEX*, Jul/Aug, 1999, pp 20-26.

55. W. Sabin, "[A 100-W MOSFET HF Amplifier](#)," *QEX*, Nov/Dec, 1999, pp 31-40
56. B. Shriner and P. Pagel, "[A Step Attenuator You Can Build](#)," *QST*, Sep, 1982, pp 11-13.
57. K. Spaargaren, "[Frequency Stabilization of LC Oscillators](#)," *QEX*, Feb, 1996, pp 19-23.
58. J. Stephensen, "[Reducing IMD in High-Level Mixers](#)," *QEX*, May/Jun, 2001, pp 45-50.
59. P. Wade, "[Noise Measurement and Generation](#)," *QEX*, Nov, 1996, pp 3-12.
60. A. Ward, "[Noise Figure Measurements](#)," *Proceedings of Microwave Update '97*, Sandusky, OH, Oct, 1997, ARRL Publication number 231, pp 265-272.