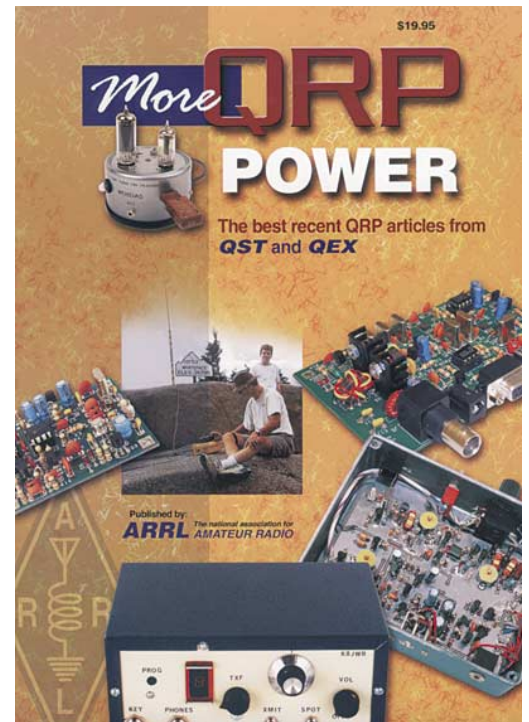


More QRP Power

N.N.: More QRP Power



In den vergangenen Jahren hat sich nicht nur im Amateurfunk ein Wandel von der reinen Analog- zur Digitaltechnik und zur Miniaturisierung vollzogen. So verwundert es nicht, dass sich diese Veränderungen auch in den amerikanischen Publikationen QST, QEX und dem ARRL-Handbuch stärker niederschlugen.

Daher war es an der Zeit, neue QRP-relevante Beiträge aus diesen Publikationen zu einem lesenswerten Buch zusammenzustellen. Bei der Auswahl ist den Herausgebern eine gelungene Mischung aus einfachen Transceivern, Sendern und Empfängern wie dem *Micromountaineer* und *Rock Mite* für den SSB- bzw. CW-Betrieb sowie dem *Warbler* für PSK31 gelungen.

Doch auch Freunde der vielen Zusatzgeräte sowie des Antennenbaus kommen u.a. durch kleine und größere Projekte wie 100-W-Z-Match, 100-W-Endstufe, *Pico Keyer* und *LED SWR/ Power Meter* nicht zu kurz – denn was wäre eine Stationsausrüstung ohne sie. Wertvolle Beiträge über den mechanischen Aufbau von Geräten sowie die praktische Verwendung von SMD-Bauteilen vervollständigen dieses Buch.

Fazit: Ein „Muss-ich-haben“-Buch in leicht verständlichem Englisch, dass sich nicht nur an QRPer wendet, sondern alle Funkamateure verstärkt zum Selbstbau ihrer Stationen animieren will. **-red**

ARRL, Newington 2006

1. Auflage, 208 S., 18 E

FA-Leserservice A-9655

Contents

Foreword

About the ARRL

1 Construction Practices

2 Transceivers

3 Transmitters

4 Receivers

5 Accessories

6 Antennas

A Note About Contact Information and Resources

www.arrl.org/tis/tisfind.html

www.arrl.org/tis/info/qrphome.html

Foreword

The enduring popularity of QRP—operating with 5 W or less—is demonstrated once again by the variety of articles on the topic that regularly appear in *QST* and *QEX*. Like *QRP Power* and its predecessor, *QRP Classics*, this book brings together the best recent articles on QRP equipment, accessories and antennas. These articles have all been published since the original *QRP Power* was compiled in 1996 and complement the articles in the previous two editions.

Many people enjoy building their own transceivers, transmitters or receivers, and we have included a number of interesting projects covering a variety of bands. Some are simple, others sophisticated. All will provide immense satisfaction for the builder.

For those QRPers who prefer to build a radio from one of the many fine kits available today or purchase one of the popular commercial transceivers, we have included a wide variety of station accessories and compact portable antennas. Whether you build or buy, these projects will help you round out a station that you can use at home or take anywhere.

This book would not have been possible without the hard work and dedication of the authors who took the time to write up their projects for publication in *QST* or *QEX*. If you enjoy an article or find a particular project useful, please drop the author a note.

We hope that you enjoy the articles presented here. Give QRP a try. It's challenging and rewarding, and is sure to inject a little magic into your Amateur Radio experience.

David Summer, K1ZZ
Chief Executive Officer
Newington, Connecticut
January 2006

Chapter 1

Construction Practices

- 1-1 Surface Mount Technology—You Can Work with It! (Part 1)**
Sam Uibing, N4UAU
From QST, April 1999
- 1-8 Surface Mount Technology—You Can Work with It! (Part 2)**
Sam Uibing, N4UAU
From QST, May 1999
- 1-11 Surface Mount Technology—You Can Work with It! (Part 3)**
Sam Uibing, N4UAU
From QST, June 1999
- 1-14 Surface Mount Technology—You Can Work with It! (Part 4)**
Sam Uibing, N4UAU
From QST, July 1999
- 1-18 Homebrewing—Surface Mount Style**
Ed Kessler, AA3SJ
From QST, February 2004
- 1-21 Build a Simple SMD Workstation**
Rick Littlefield, K1BQT
From QST, July 2000
- 1-23 Panel Layout with Microsoft PowerPoint**
Bill Sepulveda, K5LN
From QST, December 2002
- 1-25 Front Panel Layout—Another Approach**
Bob Kavanagh, VE3OSZ
From QST, December 2003
- 1-26 An Easier Way to Build PC Board Enclosures**
Bob Kopski, K3NHI
From QST, September 2003
- 1-29 A Tool for Winding Small Toroidal Cores**
Charlie Hansen, NØTT
From QST, April 2000

Transceivers

- 2-1 The RockMite—A Simple Transceiver for 40 or 20 Meters**
Dave Benson, K1SWL
From QST, April 2003
- 2-5 The HiMite—A RockMite Transceiver for the Higher Bands**
Dave Benson, K1SWL
From QST, December 2005
- 2-8 The Micromountaineer Revisited**
Wes Hayward, W7ZOI and Terry White, K7TAU
From QST, July 2000
- 2-14 Build the “No Excuses” QRP Transceiver**
Dan Metzger, K8JWR
From QST, December 2002
- 2-21 The Warbler—A Simple PSK31 Transceiver for 80 Meters**
Dave Benson, NN1G and George Heron, N2APB
From QST, March 2001

Transmitters

- 3-1 The Tuna Tin 2 Today**
Ed Hare, W1RFI
From QST, March 2000
- 3-5 The Two Tube Tuna Tin Transmitter (T5)**
Steve Johnston, WD8DAS
From QST, January 2003
- 3-9 Alternative Parts for the Two Tube Tuna Tin Transmitter (T5)**
Mal Crawford, K1MC
From QST, January 2004
- 3-10 Updating the W1FB 80-Meter "Sardine Sender"**
Erik Westgard, NY9D
From QST, November 2001
- 3-13 A Simple 10-Meter QRP Transmitter**
Lew Smith, N7KSB
From QST, March 2000
- 3-17 A Simple CW Transmitter for 80 and 40 Meters**
Charles Kitchin, N1TEV
From QST, February 1998

Chapter 4

Receivers

- 4-1 The MRX-40 Mini Receiver**
Steve Bornstein, K8IDN
From QST, September 1997
- 4-3 Rescaling the MRX-40 Receiver for 80 Meters**
Rich Arland, K7SZ
From QST, May 2001
- 4-5 A Cascade Regenerative Receiver**
Bill Young, WD5HOH
From QEX, January/February 2004
- 4-10 An Ultra-Simple Receiver for 6 Meters**
Charles Kitchin, N1TEV
From QST, December 1997
- 4-13 The WBR Receiver**
Dan Wissell, N1BYT
From QST, August 2001
- 4-17 The OCR II Receiver**
Dan Wissell, N1BYT
From QST, September 2000

Chapter 5

Accessories

- 5-1 **A Compact 100-W Z-Match Antenna Tuner**
Phil Salas, AD5X
From QST, January 2003
- 5-4 **A Miniature HF 50:200 W Balun**
Zack Lau, W1VT
From QEX, November/December 2000
- 5-8 **The QRP Buddy**
Mike Aiello, N2HTT
From QST, April 1999
- 5-11 **A “Clamped-Bandwidth” Gyrator Audio Filter**
Larry Coyle, K1QW
From QST, August 2003
- 5-14 **FREQ-Mite—A Programmable Morse Code Frequency Readout**
Dave Benson, NN1G
From QST, December 1998
- 5-17 **Simple RF-Power Measurement**
Wes Hayward, W7ZOI and Bob Larkin, W7PUA
From QST, June 2001
- 5-23 **A Simple LED SWR/Power Meter**
Art Rideout, WA6IPD
From QST, June 1996
- 5-25 **The NB6M QRP Paddles**
Wayne McFee, NB6M
From QST, March 2000
- 5-27 **The PicoKeyer—An Ultra Low Power CW Memory Keyer**
Dale Botkin, NØXAS
From QST, December 2003
- 5-30 **A Compact Battery Pack for the SG-2020**
Phil Salas, AD5X
From QST, March 2005
- 5-32 **Input Voltage Conditioner—and More —for the FT-817**
Phil Salas, AD5X
From QST, June 2005
- 5-35 **An FT-817 Compact Fast Charger**
Phil Salas, AD5X
From QST, November 2003
- 5-37 **My All-Purpose Voltage Booster**
Sam Ulbing, N4UAU
From QST, July 1997
- 5-41 **A 12 V dc Boost Regulator for Battery Operation**
Daniel R. Kemppainen, N8XJK
From QST, November 2004
- 5-46 **The SuperPacker HF Amplifier**
Jonathan Gottlieb, WA3WDK and Andy Mitz, WA3LTJ
From QST, December 2005

Chapter 6

Antennas

- 6-1 Taming the Trap Dipole**
Dave Benson, K1SWL
From QST, March 2002
- 6-4 The FARApole**
Jim Valdes, WA1GPQ
From QST, December 2004
- 6-7 The NJQRP Squirt**
Joe Everhart, N2CX
From QST, April 2001
- 6-11 The Dipole Dilemma**
John Ceccherelli, N2XE
From QST, May 2004
- 6-16 The Inverted-U**
L.B. Cebik, W4RNL
From QST, May 2005
- 6-21 A Portable 2-Element Triband Yagi**
Markus Hansen, VE7CA
From QST, November 2001
- 6-24 The Ultimate Portable HF Vertical Antenna**
Phil Salas, AD5X
From QST, July 2005
- 6-30 A Simple HF-Portable Antenna**
Phil Salas, AD5X
From QST, December 2000
- 6-32 A Portable Twin-Lead 20-Meter Dipole**
Rich Wadsworth, KF6QKI
From QST, February 2002
- 6-34 A Ground-Coupled Portable Antenna**
Robert Johns, W3JIP
From QST, January 2001
- 6-39 Roll Your Own Dipole**
Robert Johns, W3JIP
From QST, January 1999
- 6-41 The Miracle Whip: A Multiband GRP Antenna**
Robert Victor, VA2ERY
From QST, July 2001