SALE OF BACK ISSUES OF SIGNAL

Back issues of *Signal* are available to fully paid-up VMARS MEMBERS ONLY at £4 per issue + postage at cost. Signal is available in hardcopy only. Similarly, we can provide hardcopies of individual issues of the VMARS Newsletter; back issues are not held so reprints would need to be made and will be charged at cost +postage. Any Member wishing to purchase back issues should contact the VMARS Membership Secretary in the first instance.

LIST OF THE CONTENTS OF ISSUES 1-65 OF SIGNAL

ISSUE 1: October 2006

A modern rebuild of an HRO GEE – A radio navigation aid Notes on the WS38 Little Dora and her offspring Building a replica Paraset A note on R210 vibrators New for old – a restorer's dilemma The explanation A newcomer's arrival into valve & vintage The Admiralty Pattern AP1803A transmitter

ISSUE 2: January 2007

Garden party surprise – another B2 spyset "AM" – Ancient and Modern? AVO 8 batteries Build a QRO transmitter. Part I: The RF deck "Tricks of the Trade" Calculating meter shunts WS24 reconstruction project An introduction to Clansman The T1509 transmitter Silica transmitting valves How far can we push that crystal? On him may depend the aircraft's safety Letters: HRO 15 m bandspread coilpack

ISSUE 3: April 2007

An irresistible urge The development of the ER-95* military transmitter Build a QRO Transmitter. Part II: The modulator

and power supply Rejuvenating a Type 43 Acos microphone Tiger, tiger glowing bright "Tricks of the Trade" The future of the past or some thoughts on 2057 High quality modulation monitor Add an RF ammeter to the TT21 TX The tiny TX with the big voice Enigma Letters: Colpitts oscillators, equipment survival

ISSUE 4: July 2007

Editorial: Fixing things SDR - Steve Designed Radio – A QRP transceiver

for 2007 The Marconi/GEC RC.410/R receiver Wireless and Radar in the Royal Artillery 1956–63 Build a QRO transmitter. Part 3: The final-final The Pearce Simpson Bimini 550 AM radio

telephone Repairing Cossor valved oscilloscopes A high-power modulator for the LG300 A test of the Shirley aerial Recreating decals and labels for vintage equipment Notes the WS38: Part 2 The WS68P at large Experimenting with a Franklin VFO "Tricks of the Trade" Letters: Audio phase-shifter in an AM transmitter Editorial: Elegant simplicity, but is it working as well as it should? Rebuilding the BC-348 The TRC 522 The National HRO receiver "Tricks of the Trade" The Codar AT5: Tales and tweaks The Royal Air Force R1155 radio receiver How good is the match? Jingle Bells Band spreading the HRO on 30 metres

ISSUE 6: January 2008

Editorial: A work of art A history of amateur radio in the UK from 1939 to 1955 A practical look at Arnhem communications "Tricks of the Trade" The military CT443 power meter Introducing...the NETOMETER Struggles with the 813 valve at the EEV Company Build a QRO transmitter. Part 4: Postscript Vibrator replacement for the R209 receiver Another look at crystal current in crystal oscillators Vector Network Analysers – receiver/antenna

matching

ISSUE 7: April 2008

The Secret Intelligence Service Mk 33 transmitter Electronic replacement vibrators for military radios British military communications during the Falklands War Adding LSB to the Clansman UK/VRC321 HF transceivers Low-cost linears A new regulated power supply for the PRC-6 and similar radios Amateur radio history A DIY 4-metre beam "Tricks of the Trade"

ISSUE 8: July 2008

Allo, Allo......(The Jupiter ER 504) A history of amateur radio in the UK. Chapter 2: 1948–55 An international erection The T1154 and post-War use "Tricks of the Trade" Decals (waterslide wet transfers) The T1154 on Top Band Restoring RF ammeters, Part 1: The 5G RF ammeter Build a QRO transmitter: The circuit diagram

ISSUE 9: October 2008

Editorial: The greatest patented invention ever The Hallicrafters HT-4 (BC-610) transmitter in war

and peace Part 1 – "Voice of Victory" Siemens Plessey Vixen system receivers Modifications to the Plessey PVS38XX receivers A history of amateur radio in the UK from 1939 to

1955. Chapter 3: 1947 A 6AM6/807 transmitter for 80 metres An unusual balanced ATU for a doublet on 80 m "Tricks of the Trade" Build a stabilised PSU Repairing the Marconi TF2002B signal generator Letters: Amateur operation during WWII?

ISSUE 10: January 2009

Editorial: Investigating how things were A history of Amateur Radio in the UK: Chapter 4:

1948–55 A D/F Loop for the R1155 A homebrew D/F cross-pointer meter for the R1155 A test-rig for measuring the dynamic range of 80

metre receivers Book Review: 'The Secret War Factory' by Charles Exton

Soft-starting Arnhem – some further thoughts "Tricks of the Trade" Letters: Adding LSB to the RT-321 – a postscript Letters: T1154 and Xtal front-ends: Which PA tube

to use Letters: Comments on TOTT and receiver dynamic range

ISSUE 11: April 2009

Editorial: Ten years of progress The RAF receiver R1475 Donald MacKay (1870–1958) The Uni-Timer construction project "Tricks of the Trade" Operation of VFOs and the Wofferton Drive League The Marconi HS27, HS28 and NT201 transmitters An introduction to Clansman. Part 2 Digging for Victory – (and profit) PICs are vintage – honest A frequency-changing project An active loop aerial for 80 m

ISSUE 12: July 2009

Editorial: What you read is what you write Introduction to Clansman: Part 3 Modifying the Clansman RT321 for easier use Chinese Type 339 HF receiver "Tricks of the Trade": Aspidistra and OSE5 A low level oscillator for 80 m A 'classical' 6-metre converter The UK/PRC 349 The half-wave filter PICs are vintage: further scribbling Some post-War HF manpacks for long range patrols Image

rejection circuits

ISSUE 13: October 2009

Editorial: A rewarding experience The

Hallicrafters HT4 (BC610). Part 2 Making thermocouples for aerial ammeters Arnhem 2009 Multi-Rock. A novel transmitter signal source The single sideband C11 – MEL L556 "Tricks of the Trade" Racal MS869 sequence unit A tale of two TT21s

ISSUE 14: February 2010

Editorial: Just because you are a VMARS member The Redifon GR479 HF SSB radio station RF power relationships in WWII low power HF manpacks "Tricks of the Trade" An alternative to the Smith Chart A control-grid modulated transmitter for 80 m Clapp, Colpitts, Seiler or Vackar. What's the difference? The Clansman Intelligent Battery Management System Netometer II – time for the needle 600 V HT

System Netometer II – time for the needle 600 V HT at 250 mA

ISSUE 15: May 2010

Editorial: A blend of old and new The rebuild of a Gee navigation system The Gee Whiz – a Gee ground station simulator Telephone handsets for VHF/FM military man pack

radios "Tricks of the Trade" A 10 MHz IF crystal filter for AM Repairing IF transformers Grid and other modulation schemes Donald MacKay (1870–1958) RAT5 – a superhet receiver for 80 m or 160 m AM The Reception Set R103 A 300 W, 50 ohm, dummy load

ISSUE 16: August 2010

Editorial: Into our fifth year Further reflections on Arnhem The Telefunken E52 communications receiver A 'suitcase' transmitter-receiver WS No. 68 P modulation The Clansman PRC320 LSB modification FAT-MAX – an analogue speech processor Pi-tank outputs and safety "Tricks of the Trade" Letters to the Editor

ISSUE 17: November 2010

Editorial: Season's Greetings Further reflections on Arnhem. Part 2 A 40 m CW bandspread coil for the HRO Datacomms in the field over Clansman radio systems A Clansman computer interface "Tricks of the Trade" Broad spectrum radio The Saturday Net: how it all started Using 75 ohm test equipment in 50 ohm

transmission lines The Racal TRA967 Practical tips Building an ultra low-power Acorn valve transmitter A 'budget' version of the10 MHz IF crystal filter for AM

ISSUE 18: February 2011

Editorial: A VMARS Handbook? Elements of the Soviet mobile radio station R161A

2M WS 46 aerial matching and RF power An unusual WWII HF pack set Spread spectrum Practical tips Logarithmic amplifiers An AM ladder filter for an IF of 450 kHz Racal ComSec MA4450 Tactical Data Entry Device

(TDED) Circuit diagram of the RBZ receiver

ISSUE 19: May 2011

A quick look at the Russian R311 field receiver "Tricks of the Trade" Make your own IF transformers The BC611 Handie Talkie Air navigation during World War II Practical tips Clansman PRC320 LSB modification revisited

ISSUE 20: August 2011

The 3-phase supply and active aerial in the R161 TV or Radio The faithful relic Back in the USSR courtesy of the Wehrmacht The BC-312 receiver The Clansman UK/PRC350 RT320 EMERS, manuals and mods The Wonder Pit story "Tricks of the Trade" Portable power for the TCS

ISSUE 21: November 2011

Further reflections on Arnhem. Part 3 How wide is your signal? UK/RT320 SSB filter bandwidths The Marconi CP-34 transceiver The BC-223 transmitter "Tricks of the Trade"

ISSUE 22: February 2012

Common aerial working with B40s An 80-metre bandspread coil for the HRO "Tricks of the Trade" Practical tips Clansman VRC32 lower side band The WS38 transceiver The Collins 618T airborne transmitter-receiver Valve RF amplifiers and mixers An electromechanical T/R sequencer

ISSUE 23: May 2012

The Collins 618T HF airborne transmitter–receiver Stable regenerative receiver using the 6V6 Radiovision and the Commander Valve oscillators "Tricks of the Trade" AWA C17020 Amenities receiver How to make white decals After Enigma: the move to electronic cyphers

ISSUE 24: August 2012

Interrogator Type 242 AM and CW valve signal detectors 618T signal fadeout on 9th May 2012 "Tricks of the Trade" Matched PA valves Practical tips The hedgehog The Collins 618T. Part 3 Watching AM

ISSUE 25: November 2012

Wireless Set No. 1 Defence HF communications in the 1960's A bench power supply for manpack

radios Inductors or coils "Tricks of the Trade" The Collins 618T airborne HF TX-RX. Part 4 Book Reviews

ISSUE 26: February 2013

A series modulator for AM The ultimate regenerative receiver by NR5Q Superheterodyne receiver ganging and tracking The Collins 618T. Part 5 Jamie Dodger calling Speedbird The AN/GRA-71 Burst Coder Unwanted emissions in the spurious domain "Tricks of the Trade" A Racal Syncal 30 modification

ISSUE 27: May 2013

60 metres from the M54 Police radio communications pre- and post-WARC An experimental straight receiver for 80 metres Casting small components "Tricks of the Trade" The Collins 618T airborne HF TX-RX. Part 6 Book Reviews

ISSUE 28: August 2013

Admiralty Pattern Indicator Frequency Drift Wireless Set No. 128 backpack transceiver Designing valve circuits Web-streamed SDR receivers at GB2RHQ Clansman battery disassembly revisited Voltage control in Larkspur vehicle installations Police radio communications pre- and post-WARC "Tricks of the Trade"

ISSUE 29: November 2013

A speech conditioner for AM About......Turn! Using a short vertical antenna at HF An audio white-noise generator A humdinger of a smell "Tricks of the Trade" The 'Windom-style' DX-100U mod. transformer Woden modulation transformer connections Refurbishing batteries The ionisation tester-restoration and use

ISSUE 30: February 2014

Built a replica Paraset and been disappointed? Using the BC221 as signal generator The lifting link, Faraday screen, etc. RF chokes "Tricks of the Trade" A shocking story Valve and semiconductor passwords The WR1/P amenities radio The Australian Wireless Set 108 Repairing the Systron Donner 1720 Screening

ISSUE 31: May 2014

Metropolitan Police wireless prior to 1930 A valve-buffer amplifier to drive an 813 from DDS "Tricks of the Trade" The WS B70: a potted history. Part 1 The PRC-64A HF transmitter-receiver Using vintage equipment on the 5 MHz band Valve testing An improved ADSL filter

ISSUE 32: August 2014

Transmitter W/T No. 1 and related transmitters Transmitter and receiver tuning: wavemeters The D111 Telephone The Zimmermann Telegram Canadian Army wireless in WWI The 'Round' valve "Tricks of the Trade" Heart transplant for a dying RV2P800 valve Bandspreading A static 'crash' reducer Extract from WWI Battle Orders

ISSUE 33: November 2014

"How to make a wireless telegraph" Increased selectivity for a vintage receiver The WS B70: A potted history. Part 2 Vintage satellites "Tricks of the Trade" Ham audio processing in a nutshell – basics A PSU plug Repairing a badly damaged variometer AGC or AVC? Making a BA1509 battery for a PRC-64 Shall I risk it?

ISSUE 34: February 2015

1944 RAF aircraft MF/HF wireless operations Good quality TCS mod without a mod A 30 dB coupler Power and SWR measurement Build a low-pass filter Operation Overlord WAS Butement (1904–1990) Shall I risk it? Important safety information Modifications to an HRO-5T for CW operation "Tricks of the Trade" New life for a Heathkit C-3U R/C Bridge

ISSUE 35: May 2015

'Conditions' during the eclipse The VMARS solar eclipse experiments An experimental ATU. Part 1 The G8TMV CTCSS encoder board The I-177 valve tester A 1921-style superhet "Tricks of the Trade" Decoupling Instant HT on and off the M54 A well-behaved and efficient end-fed multi-band aerial Accuracy in published work

Modulating the Wireless Set No. 10 A one-valve double-reflex superhet receiver

ISSUE 36: August 2015

A non-standard B2 'spy set' Variable inductors The Harris RF-2301 tactical radio and RF-RF-2360 PSU Aerial antics Further comments on the BC-611 Handie Talkie "Tricks of the Trade" MCR1 Receiver (Type 36/1) Book Reviews

ISSUE 37: November 2015

Saved from the skip: a wartime RCA AR88 receiver rescued The Bomber Command Signals Security Set Distributed amplifiers The Schaub Lorenz Music Centre 5001 model A simple antenna changeover and keying system BC-611 inverter Cold War 'Y' Station, Berlin, Teufelsberg, 1969–72 Improving Clansman VCR321 performance on AM Tricks of the Trade A vintage medium-wave regenerative receiver Some thoughts on the magnetic loop antenna An experimental remote ATU. Part 2

ISSUE 38: February 2016

MAFTX-350A: a 3.5–50 MHz AM/CW transmitter Three slide rules for wireless (spark-gap) telegraphy Calibrating the BC221 WS19 Mk111 H 028: a personal experience Standard Beam Approach receiver The 1936 Eddystone All World Two receiver "Tricks of the Trade" Conventional high-voltage power supplies Signal frequency filter for 3615 kHz A synchronous demodulator for AM

ISSUE 39: May 2016

Restoration of a KW Vanguard Now, that's what you call a boatanchor! Follow-up to the 3615 kHz signal frequency filter The Volna-K receiver A green computer "Tricks of the Trade" T1154 power supplies and related issues A.F. Bulgin & Co., Ltd. Another slide rule for wireless Corrigenda: the 1936 Eddystone All World Two

Receiver

ISSUE 40: August 2016

Crystal-Control for amateur transmitters "Tricks of the Trade" Shaving off even more Cents The CNC mill A solid-state 3615 kHz AM "tower" The Electrician Practical Wireless Slide Rule Atomic-referenced frequency calibrator The German HF community and amateur radio scene

ISSUE 41: November 2016

Amateur radio training in the 1960's Quartz crystals and oscillators Downward modulation in beam tetrode amplifiers A home-constructed mobile transmitter from the 1950's The WEEE Directive and disposal of old electronic

equipment AIRMEC Type 871 signal generator "Tricks of the Trade" Labgear wideband coupler rebuild A 'panadaptor' for the B40

ISSUE 42: February 2017

Dornier Do.17Z 5K + AR Bord Funk Gerat A simple Q-multiplier Radio Link Sound Ranging MkII "Tricks of the Trade" Testing power transformers MTR1 MkII transmitter-receiver Ground conductivity at Arnhem

ISSUE 43: May 2017

MAFRX-35A: an all-valve 3.5 MHz receiver Solder Heater-cathode insulation and cathode-keyed PAs Wireless Set X20-the other 'beam' radio set "Tricks of the Trade" RACAL TRA967 VHF FM transceriver A compact PSU for a valved receiver The T1154 on the 5 MHz band-keeping the faith The GW3OQK balanced 'S-Match' tuner Book Review: The Real Dad's Army

ISSUE 44: August 2017

15th Motor Gun-Boat Flotilla, Coastal Forces Capacitors for transmitters A straightforward near-replica of a WS19 PSU "Tricks of the Trade" "Wireless" by Rudyard Kipling ARB receiver (CRV-46151) Tales of a National Service Signaller—Tent 46 A semi-automatic Morse keyer Letters to the Editor

ISSUE 45: November 2017

Mason A-3B Technical Surveillance Counter-Measures Receiver Grid bias for a PA stage Lewis Golden: Obituary The Racal MA4202 voice encoder Lampemetre Anlayseur MB "Tricks of the Trade" The □-tracer: a versatile valve curve-tracer A QRO VFO-controlled transmitter for 80 m. Part 1 Errata: Signal Issue 44, pages 13–17 and 29–35 How to repair handles

ISSUE 46: February 2018

The Wireless Operator Radio Link, Sound Ranging MKII: follow up The Hhstory of 648 kHz in the UK Rotary power supplies Type 32 and Type 34 "Tricks of the Trade" Mains PSU and amplifiers for a T1154/R1155 Standard connectors A compact mains PSU for the GRC-9

ISSUE 47: May 2018

The original Paraset British Type A Mk.II/H 15a World War II spyset replica Sherlock Holmes investigates a PRC319 mission failure Antenna couplers/ATUs/transmatches "Tricks of the Trade" TCS transmitters and a 50 ohm load : a simple solution A compact mains PSU for the GRC-9

ISSUE 48: August 2018

Battle of Britain Radio: the TR9 The UF-1 VHF transceiver How accurate is your DFM? The ATB transmitter (type CRV-52233) Across the Channel on AM with 600 mW "Tricks of the Trade" How to refit a scrap PRC319 for QRP A TCS receiver repair Reviving 'dead' metal–can crystals Book Review: Arnhem - The Battle for the Bridges 1944

ISSUE 49: November 2018

Follow-up to Arnhem: The Battle for the Bridges 1944 Converting the Burndept BE527 AM transmitter from VHF to HF "Tricks of the Trade" The Command set Marconi Flexible Receiver 400 Hz inverters for air-borne radios. Part 1

ISSUE 50: February 2019

Whaddon Mk V SIS^{*}Spy Set' replica A T1154 restored A small multi-band receiving loop and amplifier Dual diversity adaptor type RX3A as a crystal tester The WS48 on 3615 kHz "Tricks of the Trade" The RAF microphone The R1155 homebrew PSU & amplifier Step-start without a discreet timer Book Review: The History of the Rugby Radio Station

ISSUE 51: May 2019

The Wadley masterpieces How to lace cable harnesses Sun, rain and radio: a personal reflection A 60-metre Codar clone Southwold's secret Y-Station. Part 1 Some dynamic microphones and their signatures Increased microphone gain for the WS19 "Tricks of the Trade" Valve specifications and the cathode-keved PA revisited

An 80-metre CO/PA transmitter

ISSUE 52: August 2019.

VMARS' contribution to the D-Day 75th Anniversary Vintage satellites "Tricks of the Trade" Bendix RA-1B 'super RX' The AN/ARC-60 (ARC Type-12) Southwolds's secret Y-Station. Part 2: Y-Service Overview Athlone calling Advance signal generator Model Q1

ISSUE 53: November 2019

RN equipment nomenclature Mr Pepin of Marlborough The PYE 619 transmitter/receiver R1155N rebuild A 618T tidy up Southwold's secret Y-Station. Part 3: East Coast Y– Stations The G3IKR Elizabethan

transmitter "Tricks of the Trade" Ajax Leader

ISSUE 54: February 2020

Southwold's secret Y-Station. Part 4 A portable field radio Tubes, transistors and takeovers An AM-level meter Clansman in the Falklands "Tricks of the Trade" SAMOS receiver Fu MB 4 An iso-frequency converter for the BC669 transceiver

Repairing Bowden cables

ISSUE 55: May 2020

The humble transmission line: its properties and practical applications Denco coils for valve receivers My father Harold Chadwick G8ON A

simple valve analyser for measuring mutual conductance A field study of the 'Hallmark' speech security

device Radio transmitter T1223A The M0DAF 'Corona' 80-metre AM receiver Southwold's secret 'Y'-Station. Part 5: Watch hut interiors and equipment "Tricks of the Trade" Handy propagation monitor accessory The input capacitance of valve amplifiers The Enigma machine. A history and my story

ISSUE 56: August 2020

LSB for the Clansman – digitally Cathode modulation of AM transmitters A novel AM transmitter using an ECL80-series valve Making replacement scales for moving-coil meters Spy messages 1950 to the present 4-400A linear amplifier The 394, 394A, 394F and 394G receiver family Southwold's secret 'Y'-Station. Part 6:

References and Appendices Project Raven "Tricks of the Trade"

'EF50' one-valve AM transceiver for Top Band The Bendix RA-1B aircraft radio receiver The R.1224 receiver

The G3VTD one-valve AM transmitter Spectre: spectral inversion for USB-only radios

ISSUE 57: November 2020

SOE S-phone Ship A bit of nostalgia The G4EJM one-valver Build a rack-mount chassis A screen-modulated one-valve AM transmitter "Tricks of the Trade" Cathode modulator with current-controlled feedback RAF SYKO machine Developments in communications during the Great War Japanese surrender at Rabaul Rhode & Schwarz ESEF military VHF FM receiver Aumann coil winder Input circuits for the passive-grid amplifier Building an 80-metre bandspread coil for the HRO Wideband interference monitor WS52 (Canadian): Overcoming construction issues with a replica PSU

ISSUE 58: February 2021

Internal Fire – Museum of Power Synchronous AM detector for improved shortwave reception The lucky accident, The BSA Net and West Africa A receive-converter for 10 metres Earth Induction Telegraphy The G6TVJ 'one-valver' A case for a WS48 Etching quartz crystals "Tricks of the Trade" A home-constructed DF loop for the R1155 Screws, nuts and screw threads The development of medium-powered mobile HF equipment for the Army Restoration of a Wireless Set 48 The sinking of the Flying Enterprise: an amateur

radio adventure The G3RZP 'one-valver' The rocking armature – an investigation

ISSUE 59: May 2021

Swiss LF-HF receiver E44 . Restoration of a Power Supply Unit No. 5 Re-stuffing 'bathtub' capacitors Troubleshooting Spectre A tale of two amateur radio pioneers The Royal Navy's Type 5/6 Portable Set of 1914 The smart bypass diode – a useful device with potential The reflex klystron "Tricks of the Trade" j-Demystified: why does $j=\sqrt{-1?}$ Memories come in "three's" An analysis of stripline directional couplers A gallery of Spectres The A.E.W.1 amenities receiver New life for an old valve-based receiver A 40-watt modulator with cathode-coupled driver Dumped radio equipment

ISSUE 60: August 2021

Daystrom Limited An original war-time Paraset and a forensic investigation Criggion Radio Station Inside Criggion Criggion Radio Station (odds and ends) Maxwell's equations and their implications for Amateur radio A state-of-the-art speech processor Tricks of the Trade An experimental HV PSU Wireless Set No.62 transceiver The cathode follower The BC-357-B marker beacon receiver Solid-state rear end for hybrid receivers

ISSUE 61: November 2021

One hundred years of short waves across the Pond Simple mechanical repairs to valves Adding a digital frequency meter to a valve based receiver The missed opportunities Cigarette-card TRF Echolink and military radio Wavemeter Class C The M1PVC TRF Receiver A very straight receiver The origin of jXL., jXc and inductance L in electrical circuits An inverter PSU for the WS19 "Tricks of the Trade" The G4OJY TRF receiver 'challenge' A novel approach to IF 'Q-multiplication'. The Optimod-AM 100. A companion receiver to the G3RZP one-valver A trawler-band TRF receiver

ISSUE 62: February 2022

Making replica control knobs (and other items) A remote-control high-power L-network AMU A T1154/R1155 power supply unit 80 Years of BBC and VoA HF transmission audio The CSF Type RS550 Stabilidyne receiver A tale of two triodes Transmission lines, antennae and the Smith Chart Part 1 AGC, detection and distortion Wavemeter Class C (Aust) "Tricks of the Trade" Labgear LG50 transmitter rescued Letter to the Editor Re: "The missed opportunities"

ISSUE 63: May 2022

Alan Morriss G4GEN SK In defence of Bill & Bob The Wullenweber antenna Red Army GRU Colonel Ursula Maria Kuczynski The Comet 70 years on A modular CW/AM transmitter for the 80-metre band T-195/GRC-19 transmitter Valve characteristics "Tricks of the Trade" Low-voltage power supply and high-current dummy load Loudspeaker output for the R1155 Transmission lines, antennas and the Smith Chart. Part 2 A blank Smith Chart A new feeder for a 102-foot doublet on 80 m

ISSUE 64: August 2022

A four-square phased vertical array for the 80-metre band The BAARE (British Arctic Air Routes Expedition) EMF and all that! The Harmonikker: effective and economical harmonic attenuator Agent Sonya's wireless: fact, fiction, fantasy and fable Wireless through water at Fastnet Rock - 1895 Mixers or frequency changers HM W/T Station, Mount Pearl, St. Johns, Newfoundland Made in GDR: R5, the portable EKB HF receiver in its Czech variant Realistic DX160 receiver "Tricks of the Trade" Book Review: Charles Exton. The Secret War Factory

ISSUE 65: November 2022

A high-power 813 AM transmitter based on the WS53 An effective RF speech clipper New modulator circuit utilises 807s in Class-B with zero bias 807s in zero bias Class-B "Tricks of the Trade" Build a sliding-plate capacitor Resonant lines and matching applications. Part I Neutralisation The TRA3755 Racal HF transceiver

ISSUE 66: February 2023

A positive-peak amplitude Modulator Reserve Telegraphist for HM Navy The trouble with QRM A quad-loop antenna for top band A balanced ATU with a "Mickey Match" Real ground and its effects on low horizontal HF antennas Crystal control for the ZC1 Tricks of the Trade My small contribution to Hitlers downfall Borders radio pioneers and WWII Wireless Set Number 108 Mark I Practical solutions Resonant lines and matching applications. Part 2 An AM transmitter for ten PRC319 operating peculiarities Letter to the Editor

ISSUE 67: May 2023

The Labgear LG300 revisted Illuminating the Eddystone EC958 Dragging a Geloso G209 amateur bands receiver into the 21st Century Conversion of the Clansman hand cranked generator to lithium ion charging Restoring transformers. Part 1. Principles. Double L- match unit for open-wire or ladder line feeders Tricks of the Trade Build a 40dB RF line sampler MCR21: a volunteer's account MCR1 spy set (Huntley & Palmers best!) R-392 receiver Historical note on H2S Addendum to "A positive peak AM modulator

ISSUE 68: August 2023

Restoring transformers. Part 2. Solutions Fundamentals of H2S Open Monument day, The Netherlands Morse code and me Tricks of the Trade The case of three orange pips Wireless Set No.48 A return to the bread-board

ISSUE 69: November 2023

Why do we do it Refurbishing the Racal RA17L N3991 Synchrodyne receiver research A PLL synchronous AM demodulator for an IF of 100kHz A Mk II SIS "Spy Set replica The H2S aerial problem Chorehorse battery charger (15v VDC, 300W) High speed Morse Restoring an ASV Mk II IND6 display indicator How to apply wrinkle paint Tricks of the Trade An acoustic audio filter for reception of Morse

ISSUE 70: February 2024

Mk III "spy set" RCAF ATR5 transmitter-receiver An SSB transmitter for 40, 20 and 15 metres "Winter" Matching the Command Set to 50 ohms Behind the MASC. Part 1 Reverse engineering an Army Larkspur -era BID150 DM box **HMAS** Diamantina Tricks of the Trade The PCR2 receiver Lithium-ion battery charging safety shutdown A portable loop antenna kit for 80m (and other bands) Inexpensive inverter power supply modules investigated WIRELESS Set Number 11