

Contents

Power supplies

Rewinding power transformers for 13.8 V supplies	2
3-30 V/2 A DC power supply - with design notes	5

Receivers

Receiving converter for 432 MHz/70 cm	10
Practicable superhet receiver for 1.8 - 2 MHz (and HF)	15
HF receiving converter	21
Active receiving loop antenna for 1.8 MHz	54

Transmitters

25 W AM/CW valve transmitter for 1.8 and 3.5 MHz	24
Solid-state AM/CW transmitter for 1.8 and 3.5 MHz	29

Antennas

W2PV 4-element Yagi for 6 m	34
Improved coupler for balanced and single-wire feed antennas	39
Another method of making 'air-wound' coils	123
Compact, effective vertical antenna for 160 metres - part 1	44
Compact, effective vertical antenna for 160 metres - part 2	47
Pi-coupler for the compact 160 m vertical (and HF)	51
Active receiving loop antenna for 1.8 MHz	54
RF ammeters for high frequency measurements	111

Test equipment

X1000 probe for high voltage measurements	58
"Tone-a-Volt" audible voltage and component tester	61
"Tone-a-Tune" audible SWR bridge	64
TQC - transmission quality checker	68
LF - VHF milliwatt/watt power meter	72
Capacitance bridge for radio work	76
Direct reading inductance meter for radio coils	80
Direct reading Q meter	84
Simple HF signal source	88
"Kalitron" dip oscillator	91
Some uses for a dip oscillator	96
3 - 30 V/2 A DC power supply - with design notes	5
An oscilloscope in the shack	100
Simple TV-aligned crystal frequency reference	104
Temperature-controlled crystal frequency standard	107
RF ammeters for high frequency measurements	111

In the workshop

Making holes in sheet metal	114
Rewinding power transformers for 13.8 V supplies	2
From circuit to chassis	117
Fixing up old broadcast gang capacitors	121
Another method of making 'air-wound' coils	123
'Paddyboard' circuit construction - revised	126
Experimenters' 'blob' board	128

Accessories

An electronic keyer paddle from 'scrap-box' parts	129
RF-actuated CW monitor and practice oscillator	131
TQC - transmission quality checker	68