Index

A

ABS 26.2
Abrasives 26.9
Absorption wavemeter 25.13, 25.15
Acetal Copolymer 26.2
Acrylics 26.2
Adhesives 26.3
Admittance 14.7
AGC 6.15
Alternating current 1.11
  Measurements 25.4
Aluminium 26.1
Amateur Television 20.1
  1.3GHz equipment 20.2
  10GHz equipment 20.4
  Fast scan 20.2
  Operating practice 20.7
  Slow scan 20.1
Ammeter, RF 10.22
Amplifier
  435MHz mobile booster 5.13
  Audio 3.20, 5.20, 5.24, 8.22
  Buffer 4.13
  Combining 7.16
  DC 5.20
  FET and MOSFET 5.7, 5.9, 5.10
  Integrated circuit 5.8
  Intermediate frequency (IF) 5.7, 5.9, 6.33
  Linear (see Linear amplifier)
  Matching 7.15
  MMIC 5.9, 11.7
  Neutralising 3.30
  Operational (op-amps) 3.19, 5.20
  Power 5.9, 5.13
  Power for HF 7.11
  Power for microwaves 11.19
  Power for VHF/UHF 9.24
  Preamplifiers, microwave 11.14
  Preamplifiers, VHF/UHF 5.7, 9.8, 9.18, 21.9
  Protection 7.15
  Radio frequency (RF) 5.6, 6.26
  Radio frequency (RF), VHF/UHF 9.9
  Receiver front-end 8.32
  Solid state versus valve 7.13
  Stability 6.34
  Transistor (see Transistor)
  Valve 3.29, 5.14, 7.13
  Video 5.9
Amplitude modulation (see Modulation)
AMTOR 19.4
Analogue to digital
  Converter 3.23
  Interface 5.38
Antenna bandwidth 13.4
Antenna bridge 25.29
Antenna cables, routing into house 13.16
Antenna directivity 13.2
Antenna feeders (see Feeders)
Antenna fields, near and far 13.1
Antenna gain 1.23, 13.2
Antenna height and propagation 12.10
Antenna insulators 13.13
Antenna matching and tuning 15.11
  Balanced ATUs 15.18
  Matching a mobile antenna 15.45
  Transmatch 15.14
  Tuning unit (ATU) 15.12, 15.13
  V-beam 15.42
  Vertical beam, phased 15.41
  Versatuner, MFJ 15.18
  VHF/UHF 16.11
  Yagi, HF 15.35
  Z-match 15.23
Antenna masts 13.17
  Commercial 13.18
  Counter-weighted fold-over 13.18
  G2XK lightweight fold-over 13.17
  Wooden 13.20
Antenna modelling / simulation 13.6
Antenna polarisation 13.4
  Circular, feed and reversing 16.38
  Control of 16.36
  Switch, mast-head for 145MHz 16.37
Antenna radiation patterns 13.2
Antenna resonance 13.1
Antenna supports (see also Antenna masts)
  Chimney 13.16
  Trees 13.20
  Wall brackets 13.15
Antenna tubing 13.11
Antenna wind loading 13.21
Antenna wire 13.11
Antennas, constructing beams 13.14
Antennas for 136kHz (see LF)
Antennas for satellite communication 16.33
  Crossed-dipoles 16.33
  Eggbeater 16.34
  Hairpin 16.34
  Quadrifilar helix, or Volute 16.35
  Turnstile 16.33
Antennas, HF 15.1
  Centre-fed 15.3
  Centre-fed multiband 15.7
  Compact beams 15.39
  Communidipole 15.10
  Delta loop 15.33
  Dipole 1.23, 15.3
  End-fed 15.1, 15.11
  Fixed long wire beams 15.41
  G3LDO double-D 15.40
  G5RV 15.7
  G6XN 15.39
  Ground plane 15.5
  Loop antennas 15.25
  Marconi 10.13
  Mobile 15.43
  Open wire tuned dipole 15.8
  Parallel dipoles 15.7
  Quad 15.37
  Rhombic 15.42
  Rotary beam 15.35
  Skeleton slot 15.34
  Using HF wire beam on low bands 15.3
  W6RCA multiband doublet 15.9
Antennas, microwave 17.1
  Helical 17.1, 17.6
  Horn 17.11
  Patch antennas 17.1
  Slot 17.1, 17.5
  Yagi 17.1, 17.8
Antennas, VHF/UHF 16.1
  Arrays of 16.9
  Collinear 16.28
  Dipole 16.1
  Dipole, gain sleeve 16.27
  Dipole, skirted 16.27
  Dipole, vertical for portable use 16.18
  Discone 16.27
  Ground-plane, quarter-wave 16.24
  Hand-held and portable 16.17
  HB9CV mini-beam 16.18
  Helix, axial mode 16.15
  Helix, normal mode 16.17, 16.20
  J antenna 16.31
  Log periodic 16.14
  Mobile 16.20
  Mounting 16.13
  Omni-directional 16.24
  Omni-V for 144MHz 16.24
  Quad 16.7, 16.13
  Siting and cabling 9.2
  Stacking 16.14
  Whip, dual-band for 144/435MHz 16.25
  Whip, quarter-wave 16.21
  Whip, half and five-eighths-wave 16.21
  Whip, seven-eighths-wave 16.22
  Yagi 16.2
  Yagi, long 16.6
  Yagi, skeleton slot 16.12
ARQ 19.1, 19.7
Atmosphere, the Earth's 12.1

Atoms 1.1, 3.1
Attenuators 5.37, 6.27, 25.35
Audio stages in receiver 6.37
Automatic gain control (see AGC)
AX25 (see Packet radio)

B

Balanced circuits 1.20
Balun 14.12
  Choke 14.13
  PA0SE HF 14.14
  Transformer 14.13
  VHF and UHF 14.14
Bandwidth 2.13, 5.1
Batteries 1.4
  Charging 24.11
  Primary 24.11
  Reverse protection 24.12
  Secondary 24.11
Beacon network 12.27
Beam tetrode (see Valves)
Breakthrough (see Electromagnetic compatibility)
Bias
  Circuits 3.11
  Classes of 3.11, 3.29
Brass 26.1

C

Cabinets 26.27
Calibrator, receiver 25.21
Capacitance 1.6
  Formulas A.1
  In AC circuits 1.13
  Measuring with dip oscillator 26.14
  Meter 25.8
Capacitors, fixed
  Ceramic 2.4
  Electrolytic 2.8
  Glass 2.7
  Gunn 3.7
  In radio equipment 1.7
  In series and parallel 1.7
  Mica 2.5
  Paper 2.7
  Plastic film 2.7
Capacitors, surface mount
  (see Surface mount)
Capacitors, variable 2.8
Cathode ray tubes 3.30
Charge 1.2
CLOVERII 19.7
Coaxial feeder (see Transmission lines)
Coaxial connectors 14.7
  Connecting to microwave PCBs 11.4
Codec 8.9, 8.12, 8.15
Coil winding A.3
Colour codes (see Components)
Compact disk (CD), info on 22.5
Compander 5.25
Components
  Colour codes A.5
  Measuring 25.8
  Microwave, modern 11.3
  SMD (see Surface mount)
  Storage and control 26.27
Compression 5.1
Computer
  Circuit design by 22.2
  Connecting to your radio 19.2
  Controlling your radio by 19.2, 22.6
  CPU 22.1
  EMC 23.11
  Inside 22.1
  Operating system 22.1
  Parallel port 22.5
  Serial port 22.5
  Software 22.1, 22.2
Connectors, coaxial (See Coaxial connectors)
Constant current generator 3.13
Conductance 1.3
Construction techniques
  Microwave 11.3
Conductors 1.1
Construction 26.1
Copper 26.2
Corrosion 26.4
Coupled circuits 1.17, 5.27, 7.1
Crystal
  Buying for oscillator 4.10
  Equivalent circuit 4.11
  Filter (see Filters)
  Oscillator (see Oscillators)
  Quartz 1.17, 2.15
  Temperature coefficient 4.10
  Temperature control 4.10
CTCSS signalling 5.40
Current flow 1.2
Current measurement 25.1
CW (see Morse)
Cyanoacrylates 26.4

D

Darlington pair 3.13
Data communication 19.1
  Developments 19.1
  Getting started 19.1
Decibels 1.28, A.1
Demodulation (see Receiver)
Digital modes (see Data communication)
Digital signal processing (DSP) 6.7, 8.1, 8.3, 8.4, 8.8, 8.29, 8.38
Digitising speech 5.39
Diodes 3.2
  Germanium 3.6
  In power supplies 24.3
  Light emitting (LED) 3,7
  PIN 3.5,. 5.14
  Schottky barrier 3.6
  Testing 25.8
  Valve 3.25
  Varactor 3.5
  Zener 3.5
Dip oscillator 25.13
Direct conversion receiver (see Receivers)
Diversity reception 12.13
Doping 3.2
Doppler shift 21.3
Dummy load 2.2
  For 136kHz (see LF)
Dynamic range 9.5
DX Clusters 19.10

E

Earth / ground
  Artificial 15.2
  Effect of 13.5
  For 136kHz transmitting (see LF)
  For EMC 23.3
  On microwave PCBs 11.4
  Real 15.2
  RF 15.2
  Safety (PME) 15.2
Effective aperture of antennas 1.23
Effective radiated power (ERP) (see Power)
Electrical units 1.2
Electromagnetic compatibility (EMC) 23.1
Electromagnetic spectrum 1.21, 12.4
Electromagnetic wave 13.1
Electromagnets (see Magnets)
Electromotive force (EMF) 1.2, 1.3
EME (see Moonbounce)
Energy 1.2
Epoxides 26.3
EZNEC (see Antenna modelling)

F

Facsimile 20.1
Fading (see Propagation)
Faraday rotation 21.8
Faraday screen 2.11
FEC 19.1
Feeders, antenna (see also Transmission lines) 1.21, 1.23
Field effect transistor (FET) (See Transistor)
Field strength 12.2
  Meter 5.37, 25.35
  Measuring on LF 10.23
Filters 1.18, 5.25, 5.27
  Active 5.33, A.16
  Audio 6.37
  Bandpass 5.33, 8.35
  Butterworth A.11
  Chebyshev A.4, A.12
  Ceramic 5.33, 6.25, 7.10
  Crystal 5.30, 6.22, 7.9
  CW 5.34
  Design calculations A.8
  Elliptic A.8

For EMC 23.6
High Q types 5.30
IF 9.12
Ideal and real 5.26
LC 5.26
Low pass 5.9, 5.27
Mechanical 5.30, 6.25, 7.10
Microstrip 5.28, A.14
Notch 5.35
Roofing 6.22
Switched capacitor 5.35
VHF and above 5.28
Flutter (see Propagation)
Frequency and wavelength 1.22, A.1
Frequency counter 26.26
Frequency marker 26.17
Frequency modulation (see Modulation)
Frequency synthesis 4.14
Analogue 4.14
Direct digital synthesis (DDS) 4.17, 10.12
Huff and puff stabiliser 4.16
Partial 6.19
Phase-locked loop (PLL) 4.14
Fresnel zones 10.12

G

Gain 5.1
Gain compression 9.4
Galvanic series 26.4
Gamma match (see Matching)
Generators, mechanical 1.4
Germanium diode (see Diodes)
Ground (see Earth)
Ground waves 12.3,12.8, 12.10
Gunn diode (see Diodes)

H

Harmonics 1.12
Distortion 5.1
Headphones 2.14
Heatsinks 26.15
For power amplifiers 7.16
Hellschreiber 19.5

I

Impedance 1.14, 5.1, A.2
Antenna feed 13.2
Bridge 25.9
Characteristic 14.1, A.1
Measurements 25.9
Transformation in antennas 14.2
Inductance
In AC circuits 1.13
Measuring with dip oscillator 26.14
Mutual 1.10
Self 1.9
Inductors 2.9
Chokes 2.10
Energy storage 2.10
In series and parallel 1.10, A.2
Pot cored A.3
Surface mount (see Surface mount)
Integrated circuits
Digital 3.21
In receivers 6.21
Linear 3.19
RF power (see also Amplifiers) 5.13
Interference (see Electromagnetic compatibility)
Intermediate frequency (IF)
Amplifier (see Amplifiers)
Choice of 6.18, 9.6
In PIC-A-STAR project 8.15
Intermodulation 1.27, 5.1, 6.12, 9.4
International space station 21.2
Internet, the (see also the references section at the end of most chapters) 22.4
Access and EMC 23.7, 23.11
Ionosphere 12.1, 12.15
Wave propagation in 12.6
Ionospheric
Disturbances 12.20
Layers 12.16
Predictions 12.25
Waves 12.3
Isolation 5.1
Isotropic radiator 1.23
Insulation 2.1
Insulators, antenna 1.1

J

Junction FET (JFET) (See Transistors)

K

Key click filter 1.11
Keys, Morse (see Morse)

L

Lacquer 26.29
Laminates 26.2
Laser DXing 11.45
Lettering for front panels 26.30
LF - the 136kHz band 10.1
Amateur receivers and transceivers 10.1
Antennas for receiving 10.3, 10.19, 10.21
Antennas for transmitting 10.13, 10.15, 10.18
Antenna voltage and safety 10.15
Commercial equipment for 10.2
Converters 10.4
Dummy loads 10.23
Estimating ERP 10.14
Ground systems 10.16
Interference reduction 10.19, 10.21
Loading coils 10.17
Matching loop antennas 10.18
Matching vertical antennas 10.16
Measurements 10.22
Oscillators 10.11
Receiver preamplifier 10.3
Receiver requirements 10.1
Transmitter, 1kW 10.10
Transmitters 10.6
Transmitters, Class D 10.7
Light emitting diodes (see diodes)
Linear amplifier
100W HF 5.11
50MHz 5.12
Choosing 7.38
Constructing 7.39
Grounded-grid, 200W HF 5.18
Interfacing to exciter 7.42
Medium/high power solid state HF 7.37
Passive grid, 400W HF 5.19
SWR protection 7.41
VHF, double-tetrode 5.17
Locators 12.24
Long-tailed pair 3.14

M

Magnetic fields, intercation of 1.9
Magnetic materials 2.9
Magnetism 1.8
Magnetosphere, the Earth's 12.15, 12.19
Magnets
Permanent 1.8
Electromagnets 1.8, 1.9
Magnification factor (see Q)
Map projections 12.22
Matching
Antennas 14.16
Gamma match 14.14
Omega match 14.15
Using LC circuits 5.30
Maximum power transfer 1.3
Memory 3.22
Metals 26.1
Meters
Analogue 25.1
Digital 25.5
MFSK16 19.6
Microphones 2.14
Microprocessor 3.23
PIC 8.1, 5.41
Microstrip (see Filters)
Microwave amateur allocations 11.3
Microwave antennas (see Antennas, microwave)
Mixer 5.1
Balanced 5.2, 7.5
Diode 5.2
'H' mode 6.45
In receivers 6.29
JFET 5.3, 5.5
MOSFET 5.4, 9.11
Practical circuits 5.2
Products 5.2
Quadrature 11.30
Ring 5.3, 6.45
Semiconductor 5.3
Test assembly 6.43

VHF/UHF 9.10
MMIC (see also Amplifiers)
For microwave use 11.5
Modulation 1.24
Amplitude (AM) 1.24
Digital 1.26
Frequency (FM) 1.25, 9.13
Phase modulation (PM) 1.26
Single sideband (see SSB)
Techniques 7.5
Modulators (see Mixers)
Molecules 1.1
Moonbounce 21.7
Station equipment for 21.8
Propagation 21.7
Morse 18.1
Break-in (QSK) 7.21, 8.31
Keyer 18.4
Keys 18.3
Learning 18.2
QRSS and DFCW 18.6
Transmission and reception 18.5
MOSFETs (See Transistor)
MT63 19.6

N

Neutralising (see Amplifiers)
Nickel silver 26.4
Noise 5.1, 23,9
VHF/UHF 9.2, 9.5
Noise bridge 25.10
Noise factor/Noise figure 6.10, 9.3
Noise limiter / blanker 6.35
Null steerer (see also LF, Interference reduction) 6.35
Nylon 26.3

O

Ohm's Law 1.3, A.2
Op-amps (see Amplifiers)
Oscillator 4.1
Basic requirements 4.1
Buffer (see Amplifier)
Building 4.6
Butler 4.11
Ceramic resonator 4.11
Clapp 4.2, 4.4, 4.7
CMOS 4.10
Colpitts 4.2, 4.4, 4.7, 4.9
Components 4.6
Crystal 4.8
Evaluation of 4.8
Franklin 4.4
Gouriet-Clapp 4.7
Hartley 4.2, 4.4, 4.5
'Huff and puff' (see Frequency synthesis)
Low frequency sinewave 26.16
Microwave 11.9
Multiplier 4.12
Noise 6.15
Overtone 4.9
Pierce 4.9, 4.11
Practical 4.4
Standard, high precision 10MHz 11.10
Synthesised (see Frequency synthesis)
Vackar 4.7
Variable crystal (VXO) 4.11
Variable frequency (VFO) 4.2, 4.7
VHF 4.12
Voltage controlled 4.8
Oscilloscope 25.7
Measuring with 25.7
Tubes 3.31
Overload 5.1, 5.37

P

Packet radio 19.7
AX25 19.8
Channel access 19.8
Digipeaters 19.9
Network nodes 19.9
Operation 19.9
TCP/IP 19.10
PACTOR 19.7
Painting cabinets 26.28
Passive intermdulation products 23.3
Patch antennas (see Antennas, microwave)
Path profiles, plotting 12.24
PCB (see Printed circuit boards)
Pentode (see Valves)
Perspex (see Acrylics)
Phase 1.12
Phase shift network 7.7
Phase modulation (see Modulation)
PIC chip (See Microcomputers)
PIC-A-STAR project 8.1
Pic 'N' Mix project 8.3, 8.4, 8.19, 8.25
PIN junction 3.2
Plastics 26.2
Polar diagrams (see Antenna radiation)
Polycarbonate 26.3
Polyethylene 26.3
Polypropylene 26.3
Potential difference (PD) 1.3
Power 1.2, 1.5, A.2
Consumption 5.1
Effective radiated 1.23, 10.14
Meter 5.23, 25.31
Output measurement 25.27
Power amplifiers (see Amplifiers)
Power supplies 24.1
Choice of components 24.6
Constant current 24.10
Dual voltage 24.7
For op-amps 5.23
From mains supply 24.1
Over-voltage protection 24.10
Renewable energy 24.13
Soft starting 24.5
Switch mode 24.10
Voltage regulators 3.21, 5.36, 24.7
Preamplifiers, (see Amplifiers)
Preferred values 2.3
Primary cells 1.4
Printed circuit boards (PCB)
Designing 26.20
Manufacture 8.6, 26.19
Materials for microwave use 11.4
Propagation 12.1
Books on 12.27
Effect of height 12.10
Forecasts 12.27
Free space 12.4
Grey line 12.25
Internet sites about 12.27
Modes of 12.3
Multi-path, flutter and fading 12.9, 12.12
Via Moon (see Moonbounce)
Protective Multiple Earthing 15.2, 23.3
Prototype boards 26.18
PSK31 19.4
PTFE 26.3
PVC 26.3

Q

Q the magnification factor 1.15, A.2
QRSS (see Morse)
Quartz crystals (see Crystals)

R

Radiation, electromagnetic 12.2
Radiation resistance 1.23, 13.2
Radio astronomy 21.7
Reactance (see also Impedance) A.2, A.6, A.7
Receiver 6.1
Active devices for 6.21
AGC (see AGC)
Audio stages (see Audio)
Basic requirements 6.1
Basic types of 6.1
Blocking 6.12
Building 6.39
Cross modulation 6.12
Demodulation 6.34
Design trends 6.5
Digital techniques 6.6
Direct conversion 6.2, 6.42, 9.33
DSP (see Digital signal processing)
Filters (see filters)
For 136kHz (see LF)
For FM 9.13
Frequency stability (see also Oscillator) 6.19
Gain distribution 6.18
IF (see Intermediate frequency)
Input circuits 6.27, 6.41, 6.44
Intermodulation (see Intermodulation)
Microwave 11.1
Mixers (see Mixers)
Modifications to 6.37

Noise (see Noise factor/figure)
Polyphase, experimental 6.48
Protection 6.26
Reciprocal mixing 6.15
Regenerative 6.2, 6.41
Selectivity (see Selectivity)
Sensitivity 6.9
Specification 6.9
Spurious responses 6.17
Strong signal performance 6.12
Superhet 6.3
Third method 6.3
TRF 6.2, 6.40
Two-phase 6.3
VHF/UHF, design 9.3, 9.6
VHF/UHF front end 9.5
Yearling, the 6.46
Reciprocal mixing 9.4
Rectifiers 3.4, 24.1
Relays 2.13
Reliability of components 2.1
Resistance
In AC circuit 1.12
Dynamic 1.16, A.1
Resistivity of metals 2.1
Resistors
Fixed 2.2
In radio equipment 1.5
In series and parallel 1.5, A.2
Non-linear 2.3
Surface mount (see Surface mount)
Variable 2.3
Resonance 1.14, A.2, A.6, A.7
Antenna (see Antenna resonance)
RF clipping (see Speech processing)
RF measurements 25.4, 25.6, 25.36
RF switching 5.15
RMS values 1.12
RTTY 19.3

S

Safe operating area 3.11
Safety 10.15, 11.48, 24.1, 26.27, 26.32
Satellite 21.1
Annenas for 21.4
Frequencies 21.3
Orbits 21.1
Service 21.1
Summary of status 21.5
Tracking 21.2
Transceivers for 21.5
Schottky diode (see Diodes)
Scrapyards as source of hardware 13.13
Screening 1.19
Secondary cells 1.4
Selectivity 1.15
Self amalgamating tapes 26.4
Semiconductors 1.19, 3.1
Shaft encoder 5.38
Signal source
HF 25.18
VHF/UHF 25.19
Silicon 3.1
Silicone rubber compounds 26.4
Single sideband (see SSB)
Skin effect 1.17
Slow scan TV (SSTV) (see Amateur television)
Smith chart 14.4, 14.18
Smoothing (in PSUs) 24.3
Software
Antenna modelling (see Antenna modelling)
Circuit design 17.1
Satellite tracking 21.3
Solar effects on propagation 12.13
Soldering and desoldering
Iron 26.5
Technique 26.13
Sounders 2.14
Source resistance 1.3
Spectrum analyser 25.27
Speech processing 5.25, 8.31
Spurious emissions 23.8
SSB 1.25, 7.6, 11.30
Filter method 7.8
Phasing method 7.6
Standard frequency services 25.37
Standing waves 13.1
Standing wave ratio (SWR) 14.1, 14.2
Meter 25.28
Steels 26.2
Stepper motors 5.39
Sunspots (see Solar effects)
Surface mount 2.2, 2.16, 3.24, 8.9, 11.6
Active components 26.24
Capacitors 2.17
Component markings 2.18
Connectors 2.17
Construction using 26.23
Inductors amnd ferrites 2.17
Packages and pinouts 11.35
Resistors 2.16
Safety 26.27
Size comparison 11.4
Soldering 26.27
Static control 26.27

T

Television, amateur (see Amateur television)
Television, breakthrough to 23.5
Test and measurement
Using a computer 22.3
Tetrode (see Valves)
Thyristor 3.18
Time constant 1.10, A.2
Tin plate 26.2
Tools 26.5
And working conditions 26.26
Using 26.9
Transceiver 7.17
Choosing a commercial HF 7.44
Microwave SSB 11.24
QRP HF 7.28
Transformer 1,18, 2.10
Auto 1.18, 2.12
Ratios A.2
Transistor 3.8
As a switch 3.13
Amplifier 3.9
Bipolar 3.8
Configurations 3.12
GaAsFETs 3.15
Junction Field Effect (JFET) 3.14
Transistor testing 25.8
MOSFET 3.15
VMOS 3.17
Transmission lines 14.1
Coaxial cable 14.3, A.3
Coaxial cable, splicing 14.11
Construction 14.3
Losses in 14.2
Twin feeders 14.3
Transmitter monitor 25.21
Transmitters
For 136kHz (see LF)
HF 7.1, 7.21
Microwave 11.1
Transverter
10GHz 11.40
144/1296MHz 11.38
For HF 7.19
For VHF/UHF 9.36
VHF, driving 5.38
Triac (see Thyristor)
Triode (see Valves)
Tropospheric
Prpcesses 12.21
Waves 12.3, 12.7
Tubes, electronic (see Valves)
Tuneable toroid 2.10
Tuned circuits 2.9
VHF/UHF 9.7

U

Unbalanced circuits 1.20

V

Valves 3.24
Amplification factor 3.28
Anode tank circuits 7.3
Applications 3.28
Characteristics 3.28

Construction 3.27
Diode (see Diode)
Disc seal 3.30
Electrode dissipation 3.28
Impedance 3.28
Mutual conductance 3.28
Pentode 3.26
Power amplifier (see Amplifiers)
Receiving 6.21
Tetrode 3.26
Triode 3.25
Varactor diodes (see diodes)
Variable frequency oscillator (see Oscillators)
Variac 2.12
Variometer 2.9
Velocity factor 14.1
VHF/UHF receivers, transmitters and transceivers 9.1
VHF/UHF station, getting the best out of 9.1
VHF/UHF, choosing equipment for 9.46
VHF/UHF, books and magazines 9.46
Voice record-playback device 5.25
Voltage measurement 25.1
Voltage multiplier 24.3
Voltage regulator (see Power supplies)
VOX 8.7, 8.31, 19.2
VSWR (see Standing wave ratio)

W

Wavelength (see Frequency)
Wind loading (see Antenna wind loading)
Wire 2.1
Gauge A.3
Wood 26.4
Workshop practice 26.1

Y

Yagi antenna (see Antennas, VHF/UHF and Antennas, microwave)

Z

Zener diodes (see diodes)
Zero IF SSB Transceiver 11.25