

## Table of Contents

<b><u>January 1974</u></b>	
1 medium-power toroidal antenna tuner - - - - -	1
<b><u>May 1968</u></b>	
2 four-band high-frequency Windom antenna - - - - -	4
<b><u>June 1968</u></b>	
3 Performance characteristics of vertical antennas - - - - -	8
<b><u>April 1974</u></b>	
4 Vertical antenna radiation patterns - - - - -	12
<b><u>May 1974</u></b>	
5 Fixed log-periodic beam for 15 and 20 meters - - - - -	16
6 Parabolic reflector antennas - - - - -	22
7 Simple antennas for satellite communications - - - - -	33
8 Vertical antenna ground systems - - - - -	39
9 Measurement techniques for antennas and transmission lines - - - - -	45
10 Three-band vertical DX antenna - - - - -	52
11 160-meter loop for receiving - - - - -	54
12 The truth about 5/8-wavelength vertical antennas - - - - -	56
13 Five-to-one Transmatch - - - - -	62
14 Vertical radiation patterns of horizontal antennas - - - - -	64
<b><u>June 1974</u></b>	
15 Optimum height for horizontal antennas - - - - -	67
<b><u>July 1974</u></b>	
16 5/8-wavelength two-meter antenna - - - - -	70
<b><u>August 1974</u></b>	
17 How to calculate wind loading of towers and antenna structures - - - - -	74
<b><u>September 1974</u></b>	
18 Design data for pipe masts - - - - -	86
<b><u>October 1974</u></b>	
19 Feed systems for log-periodic antennas - - - - -	91
20 Mechanical design of cubical quad antennas - - - - -	97
<b><u>December 1974</u></b>	
21 Circular polarized ground plane antenna for satellite communications - - - - -	101
22 Improving the performance of low-frequency vertical antennas - - - - -	110
<b><u>March 1975</u></b>	
23 Low-cost az-el antenna mount for satellite communications - - - - -	114
<b><u>May 1975</u></b>	
24 Large vertical antenna for 160 and 80 meters - - - - -	119
25 Graphical design method for log-periodic antennas - - - - -	125
26 four-element phased vertical array - - - - -	135
27 Parabolic reflector element spacing - - - - -	139
28 How to design shunt-feed systems for grounded vertical radiators - - - - -	145
29 High-gain 1296 MHz Yagi Array - - - - -	151
30 Measuring complex impedance with an SWR bridge - - - - -	156
31 Electrically-controlled phased array - - - - -	161
32 Wide bandwidth bow-tie antenna for eighty meters - - - - -	165
33 Loop antenna receiving aid - - - - -	173
34 Tilt-over tower uses extension ladder - - - - -	178
<b><u>July 1975</u></b>	
35 Low profile three-band quad - - - - -	181
<b><u>November 1975</u></b>	
36 Dipole antennas - - - - -	186
<b><u>January 1976</u></b>	
37 High gain Yagi for 432 MHz - - - - -	190
<b><u>March 1976</u></b>	
38 8/8-wavelength vertical for two meters - - - - -	192
<b><u>April 1976</u></b>	
39 corner-fed loop antenna for low-frequency DX - - - - -	194
<b><u>May 1975</u></b>	

40	Cylindrical feed horn for parabolic reflectors	-	-	-	-	-	-	-	197
41	Six-element collinear antenna for 20 meters	-	-	-	-	-	-	-	202
42	Improved low-profile three-band quad	-	-	-	-	-	-	-	205
43	Selective antenna system for minimizing unwanted signals	-	-	-	-	-	-	-	208
44	Loop Yagi antennas	-	-	-	-	-	-	-	210
45	Towers and rotators	-	-	-	-	-	-	-	213
46	Understanding the ZL Special antenna	-	-	-	-	-	-	-	217
47	5/8-wavelength vertical antenna for mobile work	-	-	-	-	-	-	-	220
48	Test data on 1/4- and 5/8-wavelength vertical antennas for two-meter mobile	-	-	-	-	-	-	-	223
<b><u>July 1976</u></b>									
49	How to add an inverted V or delta loop to your tower	-	-	-	-	-	-	-	225
<b><u>August 1976</u></b>									
50	A revealing analysis of the coaxial dipole antenna	-	-	-	-	-	-	-	227
<b><u>November 1976</u></b>									
51	Calculating line-of-sight distance to the horizon	-	-	-	-	-	-	-	241
<b><u>December 1976</u></b>									
52	Loop antennas	-	-	-	-	-	-	-	242
<b><u>January 1977</u></b>									
53	The ground plane antenna: its history and development	-	-	-	-	-	-	-	249
<b><u>April 1977</u></b>									
54	The antenna transmission line analog	-	-	-	-	-	-	-	252
<b><u>May 1977</u></b>									
55	Antenna design using the longwire principle	-	-	-	-	-	-	-	259
56	Ground screen – an alternative to buried radial system	-	-	-	-	-	-	-	271
57	A new coaxial balun	-	-	-	-	-	-	-	274
58	Antenna transmission line analog	-	-	-	-	-	-	-	277
59	Simple broadband antenna for 10GHz	-	-	-	-	-	-	-	288
60	Fine-tuning the phased vertical array	-	-	-	-	-	-	-	290
61	A comparison of VHF mobile antennas	-	-	-	-	-	-	-	295
62	High-performance antenna for 80 meters	-	-	-	-	-	-	-	297
<b><u>August 1977</u></b>									
63	How to design Yagi antennas	-	-	-	-	-	-	-	299
<b><u>January 1978</u></b>									
64	Solution to the low-band antenna problem	-	-	-	-	-	-	-	309
<b><u>March 1978</u></b>									
65	Direct methods for measuring antenna gain	-	-	-	-	-	-	-	315
<b><u>May 1978</u></b>									
66	Windom antennas	-	-	-	-	-	-	-	319
67	Multiband vertical antenna system	-	-	-	-	-	-	-	329
68	Tree-mounted ground plane antenna for 80 meters	-	-	-	-	-	-	-	334
<b><u>June 1978</u></b>									
69	Antenna guys and structural solutions	-	-	-	-	-	-	-	338
<b><u>July 1978</u></b>									
70	Multiband J antenna	-	-	-	-	-	-	-	341
<b><u>August 1978</u></b>									
71	A dream realized: the ultimate antenna array	-	-	-	-	-	-	-	344
<b><u>September 1978</u></b>									
72	Simple and efficient broadband balun	-	-	-	-	-	-	-	347
73	20 meter delta loop	-	-	-	-	-	-	-	351
74	Matching 75-ohm CATV hardline to the 50-ohm system	-	-	-	-	-	-	-	356
75	Modified quad antenna	-	-	-	-	-	-	-	359
<b><u>November 1978</u></b>									
76	Rotary beam antenna for 40 meters	-	-	-	-	-	-	-	363
<b><u>December 1978</u></b>									
77	Top-loaded delta loop antenna	-	-	-	-	-	-	-	371
<b><u>Other publications</u></b>									
		-	-	-	-	-	-	-	376