

Content / Inhalt

Antennas and Feeds

Revolutionary 'Loop Fed Array' Yagi Antenna Feed System by Justin Johnson, GØKSC	8
Further development of the LFA Yagi by Justin Johnson, GØKSC	27
High Gain LFA Yagi for 144MHz – NEC 4 makes a difference by Justin Johnson, GØKSC	41
First LFA Yagi for 70cm by Justin Johnson, GØKSC	48
More about the LFA by Slobodan Bukvic, YU7XL	56
Double Boom Yagi Antenna for 2m by Slobodan Bukvic, YU7XL	62
More about Oblongs (V) – improved 70cm models by Slobodan Bukvic, YU7XL	69
Optimized Dual-mode Feedhorns by Paul Wade, W1GHZ	74
Conical Horn Antenna for 76 GHz by Wolfgang Demmer, DD8BD	98

Synthesizers, Measuring Equipment, Mixers etc.

Microwave Integrated Power Detectors by Paul Wade, W1GHZ	100
SM5BSZ's PIN diode switch - hints and comments by Nanko de Vries, PAØV	116
1 to 3 GHz PLL Frequency Synthesizer by Daniel Uppström, SM6VFZ	121

Hints for Multiplier CMA 382400 by Philipp Prinz, DL2AM	128
Frequency Synthesizer for 22.0 – 27.5GHz by Léon Audergon, HB9TXV	130
Simple Measurement Aid for Adjustment and Optimisation on the 122 GHz Band, by Jürgen Dahms, DCØDA	146
8 to 12 GHz Image-Reject Mixer by Paolo Antoniazzi, IW2ACD and Marco Arecco, IK2WAQ	150
A “different” Xtal Oscillator - Revival and Improvements by Goliardo Tomasetti, I4BER	158

Preamps

A Broadband Preamplifier - construction and hints by Philipp Prinz, DL2AM	160
--	-----

Power Amplifier

800 Watt SSPA for 23cm by Yukio Masuda, JA8CMY	164
---	-----

Transverters

A 76GHz Transverter – with mechanical changeover by Philipp Prinz, DL2AM	170
Concept for Building a 241 GHz Transverter by Philipp Prinz, DL2AM	179
241 GHz Mixer Head for direct offset dish mount by Jürgen Dahms, DCØDA	188
Transverter Concept for 134GHz by Jürgen Dahms, DCØDA	193
A 70cm Transverter using modern GSM devices and Ericsson 9000 pager units, by Harm Kowalczyk, DK3BU	210

RX Converter for 70 MHz (or 50 MHz) by Dr. Peter Brumm, DL7HG	227
--	-----

Optical Communication

Over-The-Horizon Optical Communication, Part 1: Overview and Pratical Results by Rex Moncur, VK7MO et al.	233
---	-----

Over-The-Horizon Optical Communication, Part 2: Theory: Physics & Engineering Analysis by Paul Edwards, VK7ZAS and Rex Moncur, VK7MO	250
--	-----

Over-The-Horizon Optical Communication, Part 3: Transmitters by Rex Moncur, VK7MO and Justin Giles-Clark, VK7TW	277
---	-----

Over-The-Horizon Optical Communication, Part 4: Receivers by Justin Giles-Clark, VK7TW and Rex Moncur, VK7MO	295
--	-----

Software and Weak Signal Communication

CW-P by Klaus von der Heide, DJ5HG	311
---------------------------------------	-----

The CWP-Receiver by Klaus von der Heide, DJ5HG	322
---	-----

A Decoder for Computer-generated CW and CWP by Klaus von der Heide, DJ5HG	332
--	-----

Digital Weak Signal Communication for Minimal QSOs by Klaus von der Heide, DJ5HG	345
---	-----

Antenna Noise Temperature - Software Tools by Rastislav Galuscak, OM6AA, et al.	363
--	-----

Propagation

Midlatitude Sporadic E in Correlation to Meteor Mass Input by Joachim Kraft, DL8HCZ/CT1HZE	377
---	-----