

May-08 Home Construction, Modern Components and their sources, Modamps
 Jul-08 Small DC/DC Converters, Phase comparators for PLLs, Solid State Relays
 Sep-08 Decoupling Pitfalls, Simple Synthesizers
 Nov-08 Modifying Plugtop PSUs, PLL Follow up
 Jan-09 Digital Antenna Rotator controller
 Mar-09 Designing a Wideband VHF Converter
 May-09 Driving YIG Oscillators
 Jul-09 Logarithmic Amplifiers, Current Monitoring
 Sep-09 Self protection & fail-safe design, Remote control
 Nov-09 I/Q Upconverter Chips, generating I/Q drive signals, Surplus synthesizers
 Jan-10 Uses for the LM317 Voltage Regulator
 Mar-10 The value of Noise, generators and testing
 May-10 Ready-to-Go RF, Minicircuits range
 Jul-10 MSF Timecode Modules, Pitfalls
Change to Monthly Design Notes
 Aug-10 SDR-IQ as test equipment, Helical Resonators in VCOs, Modern GPS modules
 Sep-10 Old logic chips never die, Transverter interfacing
 Oct-10 Classe E Tx for topband, Amplitude Modulator, RTTY/FSK Source, Ferrite Cores
 Nov-10 Power Amplifier Modules, Transmission Line Transformers
 Dec-10 Rotary Encoders, Diff Line receivers and their uses, Magnetic Sensor IC
 Jan-11 Direct Quadrature Upconverter and use of allpass networks
 Feb-11 RF Padboard, Transverter LO Locking, Integrated PLL and VCO
 Mar-11 PLL Synthesizers
 Apr-11 PIC Audio / LF DDS, more on Programmable Dividers
 May-11 Wideband downconverter for SDRs
 Jun-11 Doppler Scan DF, Butler Matrix,
 Jul-11 LT5524, Protecting Voltage regulators, Salvaged Auto ATU
 Aug-11 PCN2900 USB Codec and measurement idea
 Sep-11 SDR2GO, MC13260 radio on a chip, Automobile Power Interface
 Oct-11 Low Frequency Mixers, NE612 at DC
 Nov-11 ALC Transverter Protection, Charging Pb/H+ Batteries, 2m/LF Transverter
 Dec-11 Data Logger, Noise Figure alignment aid revisited
 Jan-12 Bandpass Filter Design
 Feb-12 Direct Upconversion chips (combined with Data). NF Indicator update
 Mar-12 Direct Downconverter Chips
 Apr-12 Fractional-N Synthesizers
 May-12 Frequency Doubler, Testing Complex ICs, Sw-Mode constant current, Audio DDS mods.
 Jun-12 PIC noise generator, MCP2210 USB/PIC, PIC Frequency Divider
 Jul-12 Overvoltage transient protection, Active Antennas
 Aug-12 SDR/DTV Dongle, Biasing Op-Amps, Frequency reference Distribution
 Sep-12 Broadband active Loop antennas, Lo-Zin amplifiers, Direct sampling SDRs,
 Oct-12 Low Z Meas Bridge, Off Air Calibrator, Retuning Commercial Dplxers
 Nov-12 More on Fractional-N Synthesizers
 Dec-12 Parallel MMICS, Simple Servo, Subharmonic Mixer
 Jan-13 Frequency Standards
 Feb-13 Low cost DDS Module, Commercial Handheld SDR, Alternative Water Cooling
 Mar-13 Integrated Frequency Multiplier Chip, Phase Noise, VHF Beacon Driver,
 Apr-13 VOGAD Chip, PIC PWM Source, Amplitude Calibrator for SDRs
 May-13 Switch Mode Transmitters
 Jun-13 Harmonic Mixers, 5.76GHz Freq Doubler, Low cost UHF Amp chip, Audio Trig Switch
 Jul-13 Cancelled due to 100th anniversary
 Aug-13 DC Balance Power Meter, A bit more on the SL6270.
 Sep-13 More on Power Measurement, Modifying the Realtek Dongle, LNA Chip and SMT Tweezers
 Oct-13 RF Power, LNBs, Uses for Old Rigs and Transverter Driver.
 Nov-13 Powerpole connectors, Polarity protection in Transceivers, LTC6946 Microwave Synthesizer chip
 Dec-13 PIN Diodes, FT817 Transverter Interface, Obtaining SMT Components
 Jan-14 DDS at high frequencies, Reverse DDS, more on rig protection
 Feb-14 Odd coax lengths and mismatches, Junkbox SSB generator
 Mar-14 Using and driving Rradio Control servos, new GPS receiver module,
 Apr-14 A look at various Custom ICs
 May-14 Serial Control for AD9850 DDS Modules and Adding Phase mod to oscillators
 Jun-14 Third Method SSB, Audio Interface for Notebooks, Diode Ring as variable attenuator
 Jul-14 Driving "Wrong Voltage" relays, Switch Mode step up IC
 Aug-14 Basic Filter Design concepts
 Sep-14 Filter design continued - Bandpass filters
 Oct-14 Return Loss defined, PIC pulse Generator, FT817 Keypad Controller,
 Nov-14 SDR Play Module, High Side Current Monitor Chip, Matched Attenuators
 Dec-14 Topband Class-E PA, High side current monitor chip
 Jan-15 Hi Performance Rx front Ends, Ideal bridge rectifier Controller, Low Freq RF Switch, Old PCs
 Feb-15 Powering Mains Chargers from DC, High Speed CMOS Divider, Linear Phase Filters
 Mar-15 Inrush Current Limiter, Helical Antennas, Modifying Transformers for AM
 Apr-15 Measuring Noise Figure, RxGen Noise Head
 May-15 Log Power detector chips, use with noise figure meters
 Jun-15 Blade Experimenter's platform, Homebrew BGA soldering, LED analogue display, GPS Receivers failing
 Jul-15 SWR Bridges and Microstrip Coupled Lines
 Aug-15 Airspy SDR, wideband glitches on SI530, A2200 GPS module changes, PLL with Internal VCOs,
 Sep-15 SMD Breadboarding. Homebrew Printed Circuit Boards
 Oct-15 Homebrew PCBs continued. SMD construction and IC mounting
 Nov-15 Resistive Automatic SWR Bridge / power monitor with line of LEDs display
 Dec-15 Coherent Receivers at LF, Phase locking and soundcards
 Jan-16 SMT Soldering update, Safe Probing, Bandpass Digitiser in a PIC with timestamp
 Feb-16 More on Clicklock and PPS injection, measuring unknown twin feeder
 Mar-16 Mosfet reverse Polarity Protection, Mosfet RF Amplifier basics
 Apr-16 Diode Mixer as a PSK modulator, more on Transmission Line measurement
 May-16 More on DC Power protection, Third Method SSB, Third Method downconverter
 Jun-16 High Performance receiver design, Fast Serial Comms
 Jul-16 Switch Mode Transmitters, Dorji V/UHF Transceiver Modules for DTMF remote control
 Aug-16 Transmitter Filtering and LPF Design
 Sep-16 FT817 Transverter interface update, PTT interfacing, Art Film for PCBs, DCPro Software upgrade
 Oct-16 Test Equipment Remote Control, GPIB, Diode Power meter with serial interface, DC Isolation
 Nov-16 Tuneable Measurement Receiver
 Dec-16 Gain Stages, Photovoltaic Isolators
 Jan-17 SMPSU Overview and how they work
 Feb-17 SMPSU Filtering, more on Mosfets as power switches
 Mar-17 Phase Locked Loops, Lop Filter, Pitfalls with onboard VCOs
 Apr-17 Weaver / Third Method in DSP, DSPICS, ADL5375 RF Upconverter
 May-17 G3OTK's Novel Homebrew CW Transceiver
 Jun-17 SMT Connections, Fract-N synthesizer register values
 Jul-17 Serial interfacing Standards, RS232, I2C etc.
 Aug-17 Transverter Interfacing, using ALC, adding extra protection