



Newsletter July 2018

- BALUNs, all you may ever need to know. <http://karinya.net/g3txq/baluns/>
- Push – pull circuits and wide band transformers. <https://rf-design.co.za/wp-content/uploads/2016/02/Push-Pull-Circuits-and-Wideband-Transformers.pdf> and by Jerry Sevick (64 pages) <http://www.introni.it/pdf/Amidon%20-%20Transmission%20Line%20Transformers%20Handbook.pdf>
- Air wound coils are becoming hard to find and more expensive also. Pages 5 & 6 of a recent May '18 NAQCC News Letter shows how to easily “Home Brew” what ever is required. http://www.naqcc.info/newsletter_current.pdf
- Theory for Air coil design - http://info.ee.surrey.ac.uk/Workshop/advice/coils/air_coils.html
- A high performance HF Receiver http://vk2fc.com/progressive_receiver.php#25_April_2018
- Calibration accessories for your test equipment and Sam’s Modular Spectrum Analyser etc. <http://www.wetterlin.org/sam/SA/MSACal/CalAccessories.htm>
- From Analog.com – http://www.analog.com/en/analog-dialogue/articles/an-integrated-bidirectional-bridge-with-dual-rms-detectors-for-rf-power-and-return-loss-measurement.html?7471&ADICID=EMAL_WW_P1274_SUB-NL-PN_324&elqTrackId=ad812d776311490e863ac26088cded28&elq=ff8cfecb4bee4f80ba8cf7b1007b01be&elqaid=7471&elqat=1&elqCampaignId=4135
- For the microwave enthusiasts. <http://w1ghz.org/>
- A Simple RF Power reference from Paul W1GHZ. [file:///C:/Users/Ian/AppData/Local/Temp/Temp1_RF_power_ref%20\(3\).zip/RF_power_reference_cor.pdf](file:///C:/Users/Ian/AppData/Local/Temp/Temp1_RF_power_ref%20(3).zip/RF_power_reference_cor.pdf)
- And yet another Antenna Analyser (the German translation is a bit like Chinglish) <https://groups.io/g/QRPLabs/topic/4204281>
- The project in the FDIM buildathon is a “four port coupler” <http://grpme.com/?p=product&id=F18> Rex has a “100” other projects to show also.
- David VK3IL’s adaption of the KD1JV Soda Pop becomes a multi band version – 160M to 10M. <http://www.vk3il.net/projects/multi-banding-the-kd1jv-soda-pop/> not for the faint hearted perhaps.
- Work the LUNAR Satellite <https://amsat-uk.org/2018/05/19/dslwp-satellites-lunar-orbit/>
- If you didn’t get to 4 Days in May this year, then here is some of the activity. <http://hamradioworkbench.com/hrwb051-2018-hamvention-interviews>
- Getting the most energy from an almost exhausted alkaline cell. <https://www.elektormagazine.com/labs/get-5v-from-one-exhausted-alkaline-cell>
- And a hi tech alternative to the above circuit. <https://www.ledsales.com.au/pdf/zxsc380.pdf>
- Is your perfectly good mobile phone obsolete already after only a few years? <https://www.elektormagazine.com/news/right-to-repair>
- A bare bones Rigexpert AA-30 pcb only to add to a rig or ATU of your own manufacture? <https://www.dxzone.com/rigexpert-aa-30-zero/>
- Another version of a “Z” match Tuner (20W) to build. <http://www.qsl.net/wb3gck/zmatch.htm>

- For Android users, the beta version of QRZ app is now available for testing from - <http://qrznow.com/qrz-com-app-for-android-now-in-beta-testing/> one and a half million amateur radio call signs available to you in an instant (almost)
- Contemplating SDR reception? All you may ever want to know. http://www.radioforeveryone.com/2018/05/about-software-defined-radio-and-rtl-sdr.html?utm_source=amateur-radio-weekly&utm_medium=email&utm_campaign=newsletter
- <http://www.analog.com/media/en/training-seminars/design-handbooks/Software-Defined-Radio-for-Engineers-2018/SDR4Engineers.pdf>
- The origin of transistors. <https://www.youtube.com/watch?v=U4XknGqr3Bo>
- If you are contemplating a uBitX transceiver then here are a few add ons. <https://vk4pln.blogspot.com/2018/03/vk4pln-ubitx-add-on-boards.html>
- When the weather is bad and outdoor activity is not a real option, then Dave AA7EE, has some interesting projects to read and consider building inside where it is warm. <https://aa7ee.wordpress.com/2018/05/11/yup-its-another-si5351-vfo/> and many more.
- For the Arduino fans, if a Nano is too small or too slow for your project, try DuWayne's solution using a ESP32 device. <https://kv4qb.blogspot.com/2018/05/esp32-and-cwtd-test-gadget.html>
- How accurate is your Antenna Analyser? Build some Small RF Precision Miss Matches to test it. <http://w0im.squarespace.com/blog/2016/7/7/small-rf-precision-mismatches.html>
- A white noise generator to build for testing circuits. From Analogue Devices. http://www.analog.com/en/analog-dialogue/raqs/raq-issue-154.html?7571&ADICID=EMAL_WW_P1274_SUB-NL-PN_349&elqTrackId=80a02687dc1348ad998faa2b4e5972cf&elq=d535947e9d4f467d84a7b71799892bc4&elqaid=7571&elqat=1&elqCampaignId=4291
- Another project from Anthony F4GOH, a modulation generator for digit modes without using a PC. Ideal for the portable operators who want to use any digital modes when away from home. <https://hamprojects.wordpress.com/2018/06/07/standalone-ham-modulation-generator/>
- How to Homebrew a SDR in 9 video parts by ZL2CTM Charlie Morris. <https://hackaday.com/2018/06/06/homebrew-sdr-ham-radio-in-9-parts/> and <http://zl2ctm.blogspot.com/> for other projects.
- A new Beacon project looking for beta testers from <https://nt7s.com/>
- A multi band end fed from David VK3IL <http://vk3il.net/projects-antenna/multiband-end-fed-80-10m-antenna/>
- And another design that may be used. <https://buildthings.wordpress.com/ham-radio-end-fed-antenna-80m-40m-20m-15m-10m-164-matching-network-balun/#0>
- A 6M gain antenna with low angle propagation, the Hentenna. <http://www.raptorzone.co.za/hentenna.html>
- Johnny K5ACL 's view of the new HRD looks promising for logging multi mode QSOs. <https://www.k5acl.net/making-the-switch-to-ham-radio-deluxe-software/>
- Home brew VNA by EU1KY. https://bitbucket.org/kuchura/eu1ky_aa_v3/wiki/Home . Portable and independent of PC. Version 3. <https://www.jhongelectronics.org/2018/05/eu1ky-antenna-analyzer-kit.html>
- From Tony Fella, VK3KKP of BAREC, Measuring SWR with a noise bridge and an SDR Receiver. <https://www.youtube.com/watch?v=jatYuNvfQyw&feature=youtu.be>
- Software to display the SDRplay as a Spectrum Analyser is demonstrated here - <https://www.sdrplay.com/spectrum-analyser/>