Newsletter Sept. 2018

- What does your SWR Meter really measure? http://www.na0tc.org/lib/exe/fetch.php?media=technical:mfj_259_techfest_presentation_final.pdf
- A GHz Power meter to build at home. http://www.dl5neg.de/diodesensor/diodesensor.html
- And more from the same author. http://www.herbert-dingfelder.de/?page_id=68
- A simple RF calibrator by Bob Kopski K3NHI http://sp-hm.pl/attachment.php?aid=13776 from QEX Jan 2004 pages 51 -54 http://g0mgx.blogspot.com/2012/11/the-art-of-calibration.html is another version of it. https://kv4qb.blogspot.com/2015/10/20-mhz-power-reference-calibrating.html
- And yet another version. http://mirror.thelifeofkenneth.com/lib/electronics_archive/The_Crawley_Power_Meter.pdf
- Still afraid of SMD? https://www.elektormagazine.com/news/soldering-smds-occupational-therapy?utm_source=Elektor+International+%28English%29&utm_campaign=9cf85d8e91-EMAIL_CAMPAIGN_6_28_2018_14_10&utm_medium=email&utm_term=0_23bd160f48-9cf85d8e91-240728285&mc_cid=9cf85d8e91&mc_eid=cfa893b075
- A continuity tester from Nuts and Volts May 2018 edition. http://www.nutsvolts.com/magazine/article/build-a-continuity-tester?utm_source=hs_email&utm_medium=email&utm_content=64153362&_hsenc=p2ANqtz-_kLjvXhEgdc2RwY9H8smsgutIEVr7zAp1mr6_tptB5MDshOH8mtHbCbRIpYS9A_QIpcVhKjWlXgaGZAvppNbM06vXUCg&_hsmi=64153362 and some additional educational articles.
- From Analogue Devices a paper on why zero I/F wins on size, cost and performance. http://www.analog.com/media/en/analog-dialogue/volume-50/number-3/articles/where-zero-if-wins.pdf
- A circuit board design class in 5 easy lessons. http://tinyurl.com/ya3n43cs using Eagle.
- From Kitsandparts.com how to wind toroids the easy way(?) I use a chop stick for small toroids. http://kitsandparts.com/howtowindtoroidswithoutpain.php
- A poor man's entry to ATV. http://www.amateurradio.com/moving-pictures-first-dabbles-in-amateur-tv/
- Curious about FPGAs (Field Programmable Gate Array) Hackaday has a 4 part workshop on the subject. https://hackaday.io/project/159191-fpga-bootcamp-1/details it appears to be an easy and inexpensive introduction to the technology.
- Need a QRP SWR meter? Try the NOGAWATT design. http://www.learnmorsecode.com/qrp/nogawatt.jpg & http://www.nogaqrp.org and http://schklar.net/nogaqrpweb/projects/NOGAwatt/nogawattwithnewschematicApr20-2012.pdf
- All you ever wanted to know about SWR Bridges. (and a hundred other interesting articles) http://k6jca.blogspot.com/2015/01/notes-on-directional-couplers-for-hf.html

- Using a DMR radio? This is the latest add-on. http://www.hagensieker.com/blog/page/?post_id=99&title=jumbospot-dmr-hotspot?utm_source=amateur-radio-weekly&utm_medium=email&utm_campaign=newsletter
- Interested in MEPT propagation indication modes? https://github.com/swharden/QRSSplus
- PCB design-adding custom components to your CAD program from Design spark and others. https://www.youtube.com/watch?v=ONzkWBaVXV4&cm_mmc=AU-EM-_-DSN_20180813-_-DM135716-_-VIDEO_URL&cid=DM135716&bid=852421452&t=5s
- An Oscilloscope or Spectrum Analyser for your shack? Horses for courses. https://www.rs-online.com/designspark/do-i-need-a-spectrum-analyzer-or-an-oscilloscope?cm_mmc=AU-EM-_-DSN_20180813-_-DM135716-_-TTB_URL1&cid=DM135716&bid=852421452
- Building a DATV receiver? http://www.amateurradio.com/minitiouner-datv-receiver-built/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+amateurradiocom+%28AmateurRadio.com%29 Components are available from the BATV Club to members. https://batc.org.uk/category/minitiouner/
- A DDS with "the Lot", every thing you could wish for, from N3ZI. http://www.pongrance.com/DDS2016.html
- The shack in a box, RTL820T or RTL820T2, the many uses and modifications for these inexpensive Dongles. https://www.g8jnj.net/softwaredefinedradio.htm
- Other interesting sites - https://sites.google.com/view/pd0lew/home and http://www.qsl.net/pa2ohh/ also http://py2ohh.w2c.com.br/ although some translating required.
- Updates to the Power/SWR meter from Loftur Jonasson TF3LJ/VE2LJX for Teensy 3 and touch screen control. https://sites.google.com/site/lofturj/power-and-swr-meter---rev
- The new QSX from Hans G0UPL, a 10 band 10 Watt transceiver for Modes: SSB, CW, AM, FM, PSK31, RTTY, WSPR beacon. https://www.qrp-labs.com/qsx.html
- The 34 page issue #101 "Hot Iron" from Walford's is now available with projects from Pete Juliano, N6QW and others including Terry VK5TM. If you are not yet receiving each copy then a request to electronics@**walfords**.net will have you added to the list of subscribers.
- David G0MRF, (and others) has some interesting projects for the MF/LF bands. http://njdtechnologies.net/david-g0mrf-describes-his-summer-broadband-amplifier-project/ and also http://www.472khz.org/
- Another Scalar Network Analyser by VK3EDW http://www.qsl.net/v/vk3edw//index.html/
- Problems with RFI? The solution may be here, a 70 page manual by Jim Brown K9YC. http://k9yc.com/RFI-Ham.pdf
- The NOGAWatt SWR/Power meter homebrewed and Z-match Tuner. http://www.learnmorsecode.com/SWRmeter/index.html
- Learning material from "Amateur Logic TV" including past issues. https://www.amateurlogic.tv/downloads.htm
- For LF/MF experimenters, some articles. http://njdtechnologies.net/a-swr-protection-circuit-for-fet-amplifiers-commonly-used-at-mf-and-lf-by-tom-wb4jwm/ and other projects.
- Huff and Puff oscillator frequency stabilizer explained including circuits. http://www.hanssummers.com/huffpuff.html

73 Ian VK3LA