

NFARL Antenna Special Interest Group (SIG) Self-Study Reading Assignments

Month 1 – Kickoff and Introductory Topics Review

- Decibel and Power Ratios
“Introduction to the Decibel”, ARRL Antenna Book*, page 2-9
<http://www.astrosurf.com/luxorion/qsl-db-power-units.htm>
- Current, Voltage, Resistance and the Relationship
<http://www.hamuniverse.com/ohmslaw.html>
Optional: “Introduction to Electricity”, ARRL Handbook**, pages 2.1 to 2.12
- Impedance
<http://hyperphysics.phy-astr.gsu.edu/HBASE/electric/imped.html#c1>
<http://hyperphysics.phy-astr.gsu.edu/HBASE/electric/phase.html>
Optional: “Impedance”, ARRL Handbook, pages 2.43 to 2.48
- Wavelength: Electrical and Physical
<http://en.wikipedia.org/wiki/Wavelength>
<http://home.comcast.net/~olneytj/wavecalc.htm>
“Essential Characteristics of Antennas”, ARRL Antenna Book, pages 2-1 to 2-2
Optional: “Electromagnetic Energy”, ARRL Handbook, page 2.16

Month 2 – Wire Antenna Choices – Dipoles

• Week 1 – for net discussion on 2/04/2010

- “Dipole Antennas”, ARRL Antenna Book, pages 6-10 to 6-12
- “Wi’re We Using Wire”, L. B. Cebik
<http://www.cebik.com/content/fdim/fdim2.html>
- Optional: “Antenna Basics”, ARRL Handbook, section 2.1
- Optional: “Antenna Newcomers and the Language of Antennas”, L.B. Cebik
<http://www.cebik.com/content/a10/tales/nc.html>

• Week 2 – for net discussion on 2/11/2010

- “10 Frequently Asked Questions about the All-Band Doublet”, L. B. Cebik
<http://www.cebik.com/content/a10/wire/abd.html>
- Optional: “Dipoles and Half-Wave Antennas”, ARRL Handbook, section 2.2
- Optional: “Back to the Basics”, L. B. Cebik, pages 1-9
<http://www.cebik.com/content/fdim/fdim12.pdf>

• Week 3 – for net discussion on 2/18/2010

- “Multiband Antennas”, ARRL Antenna Book, pages 7-1 to 7-9
- “The Multi-Band Inverted-V from Many Angles”, L. B. Cebik
<http://www.cebik.com/content/a10/wire/vang.html>

• Week 4 – for net discussion on 2/25/2010

- “Sloper Antennas”, ARRL Antenna Book, pages 6-44 to 6-50
- “Shortened Dipoles”, ARRL Antenna Book, pages 6-39 to 6-41
- “The Half-Wave Vertical Dipole”, ARRL Antenna Book, pages 6-15 to 6-16
- “Stanford Fan Dipole”, <http://www.hamuniverse.com/multidipole.html>

* ARRL Antenna Book, 21st Edition

** ARRL Handbook, 2010 Edition