

NFARL Antenna Special Interest Group (SIG)

Self-Study Reading Assignments

Month 6 – Wire Antenna Construction and Installation

- **Week 1** – for net discussion on 06/03/2010

Mechanical construction: antennas, feedlines, connectors, weatherproofing

- “Construction Details and Practical Considerations” ARRL Antenna Book, pp. 4-31 thru 4-35
- “Antenna Materials and Accessories” ARRL Antenna Book, pp. 20-1 thru 20-6
- “Other Materials for Antenna Construction” pp. 20-12 thru 20-13
- “Line Construction & Operating Characteristics” pp. 24-15 thru 24-27
- Weatherproofing Coax Connections <http://www.eham.net/articles/17553>
- “Wirebook V: <http://www.thewireman.com/wirebook5.html>

- **Week 2** – for net discussion on 06/10/2010

Erection: launchers, supports, ropes, pulleys

- Pneumatic Antenna Launching Systems <http://www.antennalaunchers.com/antlaunching.html>
- Antenna Supports ARRL Antenna Book, pp. 22-1 thru 22-8
- Antenna Ropes and Pulleys <http://www.thewireman.com/antacc.html#3>
<http://tinyurl.com/2eja524>

- **Week 3** – for net discussion on 06/17/2010

Grounding: principles and requirements

- “Electrical Safety – Grounding” ARRL 2010 Handbook, pp 28-1 thru 28-12
- “A Down to Earth View of Station Grounds” http://p1k.arrl.org/pubs_archive/107438 ***

- **Week 4** – for net discussion on 06/24/2010

Shack entry and lightning protection

- “Lightning Protection for the Amateur Station, Parts 1 – 3” http://p1k.arrl.org/pubs_archive/102880 ***
http://p1k.arrl.org/pubs_archive/102965 ***
http://p1k.arrl.org/pubs_archive/103068 ***
- ICE Ltd. Special Publications. <http://www.iceradioproducts.com/10.html>
- Polyphaser Technical Notes http://www.polyphaser.com/technical_notes.htm
- Wireman <http://www.thewireman.com/ground.html>

- **Face-to-Face Meeting** – Saturday, July 10, 9:00 a.m. to Noon

Hands-on: construction, erection, installation and measurement of an antenna for each participant

*** These links may have to be copied into a browser to access them. ARRL membership is required.