The American Radio Relay League

The American Radio Relay League, Inc., is a noncommercial association of radio amateurs, organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment of networks to provide communications in the event of disasters or other emergencies, for the advancement of the radio art and of the public welfare, for the representation of the radio amateur in legislative matters, and for the maintenance of fraternalism and a high standard of conduct.

ARRL is incorporated as a corporation without capital stock chartered under the laws of the state of Connecticut, and is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1986. Its affairs are governed by a Board of Directors, whose voting members are elected every three years by the general membership. The officers are elected or appointed by the Directors. The League is noncommercial, and no one who could gain financially from the shaping of its affairs is eligible for membership on its Board.

"Of, by, and for the radio amateur": ARRL numbers within its ranks the vast majority of active amateurs in the nation and has a proud history of achievement as the standard-bearer in amateur affairs.

A bona fide interest in Amateur Radio is the only essential qualification of membership; an Amateur Radio license is not a prerequisite, although full voting membership is granted only to licensed amateurs in the US.

Membership inquiries and general correspondence should be addressed to the administrative headquarters:

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The purpose of QEX is to:
1) provide a medium for the exchange of ideas and information among Amateur Radio experimenters,
2) document advanced technical work in the Amateur Radio field, and
3) support efforts to advance the state of the Amateur Radio art.

All correspondence concerning QEX should be addressed to the American Radio Relay League, 225 Main St., Newington, CT 06111 USA.

Envelopes containing manuscripts and letters for publication in QEX should be marked Editor, QEX.

Both theoretical and practical technical articles are welcomed. Manuscripts should be submitted in word-processor format, if possible. We can redraw any figures as long as their content is clear. Photos should be glossy, color or black-and-white prints of at least the size they are to appear in QEX or high-resolution digital images (300 dots per inch or higher at the print size). Further information for authors can be found on the Web at www.arrl.org/qex or by e-mail to qex@arrl.org.

Any opinions expressed in QEX are those of the authors, not necessarily those of the Editor or the League. While we strive to ensure all material is technically correct, authors are expected to defend their own assertions. Products mentioned are included for your information only; no endorsement is implied. Readers are cautioned to verify the availability of products before sending money to vendors.

Kazimierz “Kai” Siwiak, KE4PT

Perspectives

Style Changes Coming to QEX

You will soon see some style changes phased into future QEX articles. For improved readability, Notes will no longer use difficult-to-read superscripts in the article or in the list of Notes. Instead, Notes will be identified by sequential numbers surrounded by square brackets, as in “see [1],” with the first occurrence in bold typeface. Subsequent mentions of the same Note will be in plain text surrounded by square brackets. The list of Notes at the end of the article will be numbers in square brackets followed by a single space.

To help readers locate descriptions of Figures and Tables in the article, the first mention of a Figure or a Table will use a bold typeface, such as Figure 1 and Table 1. Subsequent mentions to the same Figure or Table will use plain text.

As time goes on we may implement additional style changes that will help further improve readability. We’d like your feedback.

In This Issue

Tuck Choy, MØTCC, considers inductor losses in Pi networks in the final part of his series.

Darrel Emerson, AA7FV, examines the polarizations of modestly-sized square loop antennas.

Ulrich Rohde, N1UL, and Kai Siwiak, KE4PT, examine tuning of short antennas for portable operations.

Maynard Wright, W6PAP, uses Octave for complex characteristic impedance calculations.

Writing for QEX

Keep the full-length QEX articles flowing in, or share a Technical Note of several hundred words in length plus a figure or two. Let us know that your submission is intended as a Note. QEX is edited by Kazimierz “Kai” Siwiak, KE4PT, (ksiwiak@arrl.org) and is published bimonthly. QEX is a forum for the free exchange of ideas among communications experimenters. The content is driven by you, the reader and prospective author. The subscription rate (6 issues per year) in the United States is $29. First Class delivery in the US is available at an annual rate of $40. For international subscribers, including those in Canada and Mexico, QEX can be delivered by airmail for $35 annually. Subscribe today at www.arrl.org/qex.

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Very best regards,

Kazimierz “Kai” Siwiak, KE4PT