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© 1996-2014, Amazon.com, Inc. or its affiliates Showing 1-30 Start your review of ARRL's Small Antennas for Small Spaces Dec 09, 2017 Michael rated it it was amazing Well worth reading If you're interested in amateur radio, but live in an apartment or a home with an HOA, you will like this book. The author gives practical antenna solutions that don't require your own personal tower. I also appreciated the author's sense of humor, especially when describing multi-band plain wire antennas. He gave the formula for calculating the ideal length as: Antenna Length =  $W \times R / FT$  Where: W = The amount of wire you have available R = The amount of room available FT = Fam Well worth reading If you're interested in amateur radio, but live in an apartment or a home with an HOA, you will like this book. The author gives practical antenna solutions that don't require your own personal tower. I also appreciated the author's sense of humor, especially when describing multi-band plain wire antennas. He gave the formula for calculating the ideal length as: Antenna Length =  $W \times R / FT$  Where: W = The amount of wire you have available R = The amount of room available FT = Family Tolerance factor It's corny, but I literally laughed out loud! ...more Mar 25, 2016 Walter Underwood rated it really liked it I knew a lot of the information in this book, but that isn't the book's fault. It is a great overview of space-limited antennas including construction details. The Kindle edition could use some work. There was at least one mysterious transition, probably because sidebar text was included in-line. It needs much finer chapter divisions for on-line reading. I'm fine with avoiding chapter divisions to save printing costs, but a book this long with only four chapters is awkward. ...more George rated it it was amazing Jan 28, 2021 Johnathan rated it it was amazing Jan 18, 2018 Francisco rated it it was amazing Aug 27, 2016 Michael Reddy rated it really liked it May 06, 2016 Rick Gill rated it it was amazing May 25, 2022 Chad Lare rated it really liked it Nov 29, 2021 Lester L Davis rated it really liked it Jan 14, 2019 Mark rated it it was amazing Mar 29, 2020 David Delaney rated it it was amazing Apr 11, 2019 Frédéric Paché rated it really liked it Feb 29, 2016 John Sheppard rated it really liked it Aug 17, 2016 bill burns rated it really liked it Jun 17, 2019 Alonso Vargas rated it really liked it Feb 04, 2020 Kyle F. rated it it was amazing Apr 22, 2016 Allie108 rated it really liked it Sep 02, 2017 Thomas E. Long rated it really liked it May 02, 2017 Mike Eberl rated it really liked it Jul 14, 2019 Garnet Ryder rated it really liked it Sep 01, 2014 Andrew Owens rated it it was amazing May 12, 2022 Steve rated it liked it Sep 09, 2021 Full PDF Package Download Full PDF Package This Paper A short summary of this paper 35 Full PDFs related to this paper Download PDF Pack YUMPU automatically turns print PDFs into web optimized ePapers that Google loves. Copy Free ebooks online download ARRL's Wire Antenna Extended embed settings Chapter 2 Page 2-4 - This part of the exercise is only to show you the Antenna Notes window and not actually enter any new text. You can view the Antenna Notes window without saving any new text by clicking the No button. This will save the model with the new filename of TestDrive. If you do wish to enter some text, use the Save button. If you click the Cancel button as instructed, the entire Save As operation will be ended without changing the filename. Page 2-6 - The exercise instructs the reader to "Connect End 1 of the new Wire 2 to End 2 of the existing dipole wire by entering "WZE1" in the End 1 cell for Wire 2 and tabbing to the Y cell." That should be "W1E2", not "WZE1". (Thanks to G3OUA for pointing that out!) Also, the cursor should be in the End 1 X (or Y or Z) cell. Page 2-7 - In the second full paragraph, the correct Z coordinate is 40, not 34.7. Page 2-13 - In the paragraph beginning "The specifications for the pattern..." change the elevation angle reference from 0° to 30° in the first sentence. Chapter 3 Page 3-6 - In the first exercise the antenna's F/S can be calculated either directly from values read from the radiation pattern scales: 0 - (-31) ≈ 31 dB or from values read from EZNEC: 7.55 dB - (-23.63) = 31.18 dB. It is difficult to read precise and accurate values from the radiation pattern at scales close to the origin. Use the program's calculated values for better results. Chapter 4 Page 4-8 - The value in the denominator of the equation at mid-page should be 28.25, not 28.5. This changes the amount of wire to remove from 0.61 feet to 0.59 feet. The adjusted length of the antenna then changes from 16.81 to 16.83 feet and the SWR minimum frequency will still be close to 28.3 MHz. Chapter 5 Page 5-2 - The SWR minimum of the loop should occur between 28.7 and 28.8 MHz, not 27.7 and 27.8 MHz. Chapter 8 Page 8-2 - The formulas for reactance (at the end of the exercise) and inductance (at the bottom of the page) are more clearly understood if the parentheses are inserted as follows:  $X_c = 1 / (2 \times \pi \times f \times C)$  and  $L = XL / (2 \times \pi \times f)$  Page 8-12 - In the first full paragraph, the "Stepped Dia Correction in use" message may not display depending on the order in which the EZNEC action buttons have been used. If the message does not show, use the SWR action button instead. Chapter 9 Page 9-6 - In the first paragraph of the section Wires Too Close Together, the separation of the two wires that creates interpenetration should be 1/2 inch not 1 inch. Figure 9-7 - The figure was created with the antenna's center at the origin instead of as shown by the data in Figure 9-8. If you start with the inverted V model, the instructions result in the wires being arranged as in Figure 9-8 which offsets the center of the antenna 60.35 feet to the right along the X-axis. Chapter 10 Figure 10-2 - The value of the Frequency Step (MHz) data should be 0.5 not 0.05. If 0.05 is entered, 41 patterns will be generated instead of the desired 5. Appendix A Appendix A, Figure A.1(B) - Exchange the labels X and Y and change the coordinates of the labeled point to (2,3,2). The caption should note that the axes have been rotated around the Z axis so that the positive X, Y, and Z axes are visible to the viewer. Appendix A, Figure A.2 - Exchange the labels "YZ plane" and "XZ plane". The caption should note that the axes have been rotated around the Z axis so that the positive X, Y, and Z axes are visible to the viewer. These two changes preserve the same "handed-ness" of the X, Y, and Z axes as is used in the rest of the book. Page A-2 - Following the changes to Figures A.1B and A.2, the final sentence of the second full paragraph should read, "In Figure A.1B, the indicated point's location is 2 units along the X axis, 3 units along the Y axis, and 2 units along the Z axis." Page A-3 - In the section "Azimuth-Elevation and Spherical Coordinates", delete references to the Greek letters theta and phi, including those in the caption to Figure A.5. In the context of this book and antenna modeling in general, it is only necessary to refer to azimuth and elevation angle. The spherical coordinates of a point should be shown on page A-4 as "(radius, azimuth, elevation)". Page A-5 - In the paragraph beginning "When the CCW from X Axis convention..." exchange "clockwise" with "counterclockwise" and vice versa. Angles in the normal convention (CCW from X Axis) increase counterclockwise from the +X axis toward the +Y axis. The author regrets letting this mistake slip through and apologizes for the unnecessary confusion. Appendix B Page B-2 and B-3: to enter a negative value in the second and sixth bullet points, the key label may be either ± or +/- depending on your version of the calculator program. Similarly, the x^y and xy keys are equivalent. Where the instructions refer to pressing enter, clicking the = key is equivalent. The directions for calculation of power are incorrect. The order of entering -0.2 as an exponent and raising 10 to that power are backwards. The correct instructions are as follows: Click the 1 key followed by the 0 key and press enter (or click =). The display in Figure B.1 should show a value of 10. Click the xy key. Click the 0 key followed by the . key followed by the 2 key. Then click the ± key. Click the = key. The display should show 0.63095734444 and the remainder of the exercise is correct. The formula being evaluated is: Fraction of Power Remaining =  $10^{(dB / 10)} = 10^{(-0.2)} = 0.63 = 63\%$ .





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