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The following PDF instruction files are provided here as a convenience for users of the software that is on the Antenna Book CD-ROM. HFTA - InstructionsYW - InstructionsTLW - Instructions The package of angle-of-arrival files created by Dean Straw, N6BV, in support of HFTA terrain analysis may have been partially installed or completely omitted. The entire package, including antenna models, is available as a downloadable zip file on the following link: HFTA Angle of Arrival files EZNEC - previous editions of the Antenna Book include a version of EZNEC-ARRL that contained special model files. This software has been replaced by the demo version of EZNEC 6.0 which is available online on the EZNEC website. The demo version of EZNEC will run the EZNEC-ARRL models without modification. Problems reported with five of the antenna models revealed a problem specific to a user. All included model files must be executed properly without having to download again. The following list includes Windows-based software tools that support different topics in the Antenna Book. Chapter numbers refer to the primary chapter in the ARRL antenna book that refers to the software. There is no additional documentation available other than what, if any, is provided with the software. Unless otherwise stated, all software listed here can be downloaded to your hard drive, unzipped if necessary, and run directly from the Windows Start menu without installation in the Windows system. Chapter 1 - Antenna Fundamentals SCALE. ZIP - a software tool to change the frequency of YW antenna models while offsetting element diameters and taper. Models of other software can be used as described in the documentation included with the tool. Chapter 4 - Radio Wave Propagation RngBrg.ZIP - software to calculate the range and calculate lower from one point at one latitude/longitude to another. Chapter 7 - Log Periodic Antennas Log Periodic Element and Phase Line Calculator - Spreadsheet to calculate LPDA element lengths and distances, along with phase line impedance, by Dennis Miller, KM9O. This spreadsheet is in Excel format (XLS) and was last updated on September 12, 2011. Chapter 8 - Scale of multiple arrays. ZIP - see chapter 1 above. Chapter 11 - HF Yagi and Quad Antennas GAMMAMW4. ZIP - An improved version of the previous GAMM2-1 tool that corrects a calculation problem that doesn't find solutions to the calculations when the combination of the desired feed line impedance exceeds the product of the raw antenna resistance and gamma step value. The code was developed by Bill Wortman, N6MW and donated generously to the ARRL and its readers the Antenna Book, ARRL Handbook, and Low-Band DXing by ON4UN. The ARRL would also like to thank Greg Ordy, W8WVV for testing the code. EFFLEN, I don't know what to do. ZIP - A software routine (written in FORTRAN) to calculate effective lengths of antenna elements. Chapter 21 - Mobile and maritime HF Antennas MOBILE. ZIP - Mobile whip design software from Leon Braskamp, AA6GL. The compressed file contains MOBILE.EXE - the software - plus a desktop file icon. Chapter 23 - Transmission lines Two-wire feed line and radiated power calculator - Spreadsheet to calculate the impedance of the parallel conductor line and the amount of radiated power by Dennis Miller, KM9O This spreadsheet is in Excel format (XLS) and was last updated on 12 Sep 2011. AAT.zip software to analyze antenna tuners by Dean Straw, N6BV. The compressed file contains AAT.EXE - the software - plus a PDF statement file, desktop icon, and associated LOG and SUM file samples. The program does not run under 64-bit operating systems. The program has been run successfully under versions of Windows that have 32-bit/16-bit compatibility, such as XP and Vista. It will not run under 64-bit versions of Win 7/8/10. Installing and running HFTA, TLW, and YW The HFTA, TLW, and YW programs are known to have trouble running on 64-bit versions of Windows operating systems. They are developed for and run on 32-bit versions of Windows operating systems. If you're having problems, try running as an administrator option when starting the program. There are no plans to update the software. If you don't install the software from a CD-ROM, transfer the file to a flash drive and then install it from the flash drive. It may also be possible to copy, not install the file to the hard drive of the computer and then install it from the hard drive, but the flash drive approach is the most reliable option. SCHAAL and MAKEVOA These are MS-DOS programs and are not running under current versions of Windows. The DOSBox emulator program can be used to run old MS-DOS programs on new computers. It is an emulator designed to run old computer gaming software. The following PDF instruction files are provided here as a convenience for users of the software contained in the Antenna Book downloadable additional information. HFTA - InstructionsYW - InstructionsTLW - Instructions The package of angle-of-arrival files created by Dean Straw, N6BV, in support of HFTA terrain analysis may have been partially installed or completely omitted. The entire package, including antenna models, is available as a downloadable zip file via the following link: HFTA Angle of Arrival files Microdem no longer has access to the national databases. To obtain terrain profiles, go to k6tu.com and generate the files via the online to access the locally stored data. EZNEC - previous editions of the Antenna Book included a version of EZNEC-ARRL who ran special model files. This software has been replaced by the demo version of EZNEC 6.0 which is available online The demo version of EZNEC will run the EZNEC-ARRL models without modification. 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Chapter 7 - Log Periodic Antennas Log Periodic Element and Phase Line Calculator - Spreadsheet to calculate LPDA element lengths and distances, along with phase line impedance, by Dennis Miller, KM9O. This spreadsheet is in Excel format (XLS) and was last updated on September 12, 2011. Chapter 11 - HF Yagi and Quad Antennas GAMMAMW4. ZIP - An improved version of the previous GAMM2-1 tool that corrects a calculation problem that doesn't find solutions to the calculations when the combination of the desired feed line impedance exceeds the product of the raw antenna resistance and gamma step value. The code was developed by Bill Wortman, N6MW and generously donated to the ARRL and readers of the Antenna Book, ARRL Handbook, and Low-Band DXing by ON4UN. The ARRL would also like to thank Greg Ordy, W8WVV for testing the code. EFFLEN, I don't know what to do. ZIP - A software routine (written in FORTRAN) to calculate effective lengths of antenna elements. 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The presentation is accompanied by an Excel spreadsheet that allows the student to experiment and observe the effects of matching. Chapter 26 - Building antenna systems and towers Hal Kennedy, N4GG, built a simple Excel spreadsheet to calculate the clearance between Yagis and man wires on a guyed tower. Calculations are simplified by assuming that all man wires, booms, and elements are right (no subsidence). Thank you for purchasing the revised ARRL Handbook 2018 for Radio Communications. You have acquired a valuable companion for your exploration of radioscience. Edition-after-edition, year after year, the Handbook is universally recognized as the comprehensive RF engineering reference manual used by Amateur Radio enthusiasts of all levels of skill and also by many professionals in the field of wireless communication. In this important review, almost every chapter has been updated. In addition, chapters 8 to 14 have been rewritten to include more material on software defined radio (SDR) and digital signal processing (DSP). Among the new offerings in these chapters is a discussion of SDR and DSP fundamentals by Doug Grant, K1DG, and numerous statements by Steve Hicks, N5AC. There is also a comprehensive update of the RFI material. The grounding and bonding discussion has been updated by Ward Silver, NØAX, based on his highly successful Grounding and Bonding book published by ARRL earlier this year. When you acquire the handbook for the first time, you will not be intimidated by the chapter headlines or the subjects. This publication is suitable for everyone, regardless of their background or skill level. The book begins with a thorough introduction to the art of Amateur Radio with lots of useful information about getting a license, joining the community of amateurs, how to set up your first station, get on the air, participate in the public service, and it ends with a glossary of useful resources for newcomers of all backgrounds. The second is dedicated to the science of radio, starting with - the beginning. It includes a thorough grounding in electronic fundamentals that a basic discussion on basic electricity for students at every level. You may find this material a good refresher course in subjects you studied in high school science. If you bought the handbook for the first time, you'll quickly learn that it can take you from DC to Gigahertz, from zero to sixty, in 28 chapters plus three online operating guides. If you think you want to build some of the projects described in the handbook and you're new to construction, chapter 23 should be read before you start. You learn what tools you need (not much, in fact), where to find them, and how to build almost everything. You will receive expert instructions on completing a quality soldering joint, undoing (depriving) a connection, working with surface-mounted components and even mechanical fabrication. For the new ham, the handbook is a great deal to absorb taken at once; but if you stick with it, you will be amazed at how quickly you become familiar, not only with the theory, but also with the practicalities of radio - from long waves to microwaves. There is a life-time of learning between the two covers. So, stick with it! But if you have an experienced hand, and this is not your first copy of The ARRL Handbook, then you are in for a surprise and delight when you see the extent of the latest revisions. Every year the editors try to make the Handbook better. This edition is the most comprehensive revision since the 2014 edition. In addition to the revised grounding and adhesion material mentioned above, you will find a number of new projects, including: • VHF/UHF/microwave filters and transmission lines by Paul Wade, W1GHZ. • Software-driven and manual preselectors by George Hirschfield, W5OZF. • A digital mode audio-based VOX/PTT interface by Julian Moss, G4ILO. • A PICAXE-based timer from Darrell Davis, KT4WX. • An Arduino-based CW Ider by Bob Anding, AA5OY. • A 6-meter halo antenna by Jerry Clement, VE6AB. • An off-center end-fed portable 40-6 meter antenna by Kai Siwiak, KE4PT. • A crossed-dipoloid omnidirectional antenna for 1296 MHz by Paul Wade, W1GHZ. • A Spudgun antenna launcher from Byron Black, W4SSY. • A CW reception filter from Jim Tonne, W4ENE. The digital world is rapidly descending on Amateur Radio, and our reference book is working hard to keep up with this rapidly changing dimension. You will find listings on digital mode audio interfaces and Arduino-based CW IDers. Looking back, however, Jerry Clement reworks the venerable 6-foot halo antenna, which many of us used in our first experiments with VHF AM: a Heathkit Sixer lunchbox feeding a halo on the rear bumper. Of course, you remember! New at 6 meters? You will enjoy this sturdy new design! And there is Kai Siwiak's latest refinement to a classic off-center-end-fed portable antenna for 40 to 6 6 Old hand or new, the ARRL Handbook stays with you for a lifetime. I would also like to point out that by purchasing the Handbook, you will continue to encourage the teams of contributing authors who write and edit the Handbook. This is an eclectic group of experts in all areas of radio who make this valuable reference every year. They're hams like you. Some are professional engineers, others spare-time tinkerers and researchers - each of them broad in their interests and deep in their expertise. I would be remiss if I didn't thank them all for making this year's Handbook 2018. But especially for this compendious work of knowledge and know-how, I thank Ward Silver NØAX, the editor along with that long list of talented employees who make the Handbook possible. It's also possible that you're not a ham radio operator yet, so I invite you to become one. Earning a license is relatively easy at the entry level, and lots of fun. If you're a ham and you're not a member of ARRL, consider becoming one. ARRL is the largest repository of Amateur Radio art and science in the world. And this edition of the Handbook, the 95th in a series, is just a small part of that wondrous collection. Thanks again, and 73. Tom Gallagher, NY2RF Chief Executive Officer Newington Connecticut August 2017 2017

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