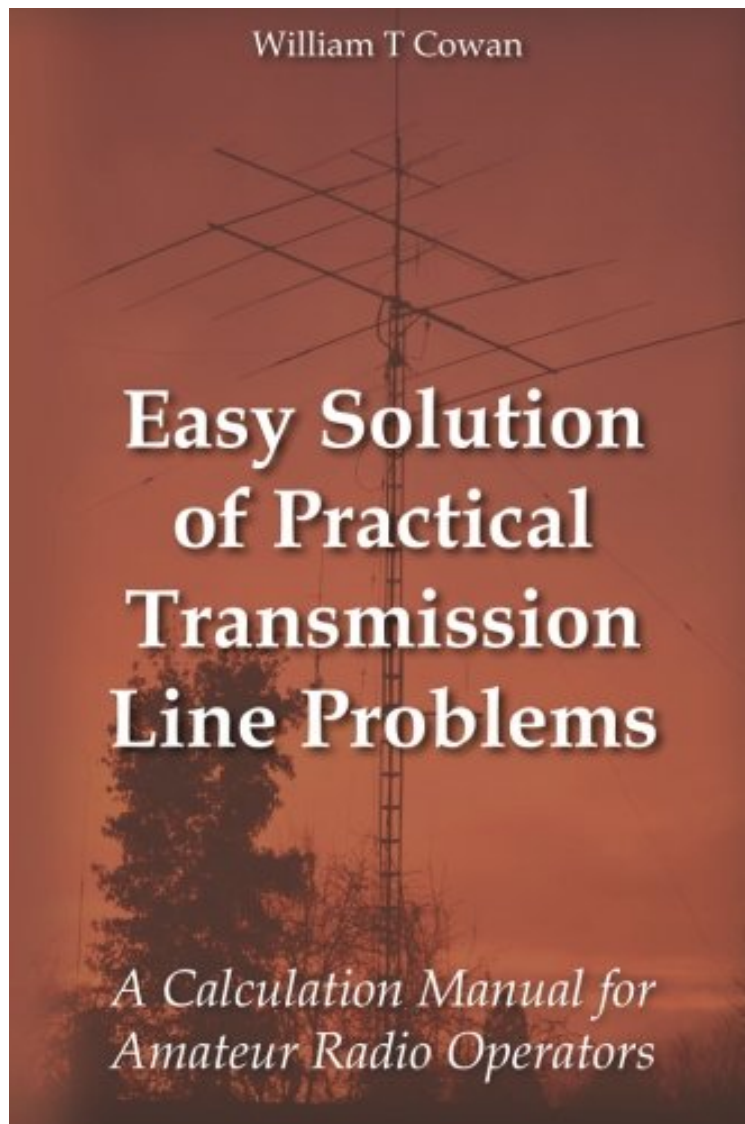


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## Easy Solution of Practical Transmission Line Problems: A Calculation Manual for Amateur Radio Operators

*William Troy Cowan*

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jkThere is a lot of very good information in this book if one wants to figure out exactly how to match your antenna to coax, make stubs and LC networks to get low SWR. The problem for me is that I'm not very good at algebra and a good understanding of some rather complex algebra is needed to figure out how to arrive at the best SWR both at the radio end, but also at the antenna. To figure out the things in this book, one has to either be very good at algebra or buy the disc that is sold by the author. The disc loads up on your computer and takes care of all the calculations. If one is to get the most from this book and solve for the best SWR at all parts of the antenna system, you almost have to buy the disc at \$18.99. If you are very good at algebra, you may not need the disc. From what I see, once I get the disc, this should help solve many problems encountered in transmission lines and get one's full antenna system resonate with good SWR. So, in the end, it may be worth the money. I want as close to 100% of my power to be radiated by the antenna and in the real world, much less than that is many times radiated. Through use of this book and the disc, I think I can get my entire coax to antenna system resonate and with a low SWR so it presents as close as a 50 OHM load to the radio and at the antenna which hopefully is 50 OHMS. As much as the average amateur spends on their radio system, the money for the book and disc may very well be worth the money. If you like most Amateur radio operators, you strive for the best you can get from what you have. This may just help to do this. Time will tell. Having an antenna analyzer is going to be a huge help in getting the figures needed.

Does that transmission line, which connects your antenna and transmitter, seem like a mystery to you? Or perhaps you have other questions: Just how much of the transmitters rated output power actually gets to the antenna? How much power is consumed by the line itself? Just what is the input impedance of the antenna? Or, what is the input impedance at the transmitter end of a transmission line when the antenna is connected to its other end? Why does my tuner seem to work better on some bands than others? What is the effect of high transmission line SWR? Should I be concerned about high SWRs? What can I do about them? It is the unusual operator who has not at one time or another asked one or more of these questions. Well, now you can easily answer these questions and many others! Using simple language the author of this book, a former electronic design engineer and amateur over more than 60 years, shows how to find the answers, quickly, easily and accurately. Those more technically inclined can work with the equations provided by the book; those who just want answers without all the math can use a personal computer and specially developed, easy-to-use programs from a CD and get accurate answers directly with the click of a button! But there is more: the book contains many solved examples and each solution is followed by a thorough discussion. Now you can get answers while you learn about transmission lines.