

**Foreword by Dan Maguire, AC6LA**

Both the scope and depth of material in Marcel's *Advanced Antenna Modeling* book are truly amazing. If you enjoy modeling, as I do, reading this book will spark many thoughts of "That's very clever!" and "I had no idea that was possible!"

Marcel begins with the basics of using EZNEC. Even if you have considerable EZNEC experience you will find little hints and shortcuts that you might not know about. Example models are provided so you can "try it yourself" as Marcel introduces new concepts.

After the preliminaries are covered the wealth of information in *Advanced Antenna Modeling* really becomes apparent. Later chapters typically have a dozen or more example model files along with small utility programs (exe files) and helpful spreadsheet calculators. For example, some of the tricks that Marcel shares for constructing polygons and other complicated shapes will surely put a smile on your face.

If you have the separate AutoEZ application which works in conjunction with EZNEC you can find many sections in the book devoted to getting the most out of that program. There is an entire chapter dedicated to explaining advanced techniques for using the AutoEZ optimizer.

I have known Marcel for almost 20 years and it has always been a pleasure to read his published work. That work includes his series of six eBooks, a total of 83 chapters, entitled *Practical Antennas*. So rest assured that Marcel has the hands-on "build it" experience to complement his "model it" knowledge.

For this latest book, I had the opportunity to do some preliminary proofreading which turned out to be more of a joy than a burden. Putting aside the occasional "missing word" here and "illustrations are swapped" there, I found myself looking forward to discovering what tricks Marcel had up his sleeve with each new chapter. I'm almost certain that you'll enjoy that same sense of happy anticipation while reading *Advanced Antenna Modeling*.

Dan Maguire, AC6LA  
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**Foreword by John Devoldere, ON4UN**

I was very thrilled when Marcel, ON5AU, asked me to write a word about his book *Advanced Antenna Modeling*. I have known ON5AU since the day he got his amateur radio license since we went for our amateur radio exam together in 1961. I have never known Marcel as a big DX-er or contester but was very pleasantly surprised when over the past several decades I saw him digging deeper and deeper into the why's and how's of radio propagation and more specifically antennas. I know by experience that the best way to test your knowledge and understanding on a technical subject, such as antennas, is to try to write about it. Not just for the local radio club but for a world-wide "audience". Marcel has studied everything that's available on the subject of antennas, knows the ins and the outs, and has worked with all of the related computer tools that float around. He's an expert in these matters. Being able to explain, in simple words, to the non-experts, how it works makes him a good teacher as well. I am proud to see my neighbor ham, ON5AU, publishing quality technical material that improves the technical and scientific understanding of all radio amateurs in this delicate field of antennas.

While writing successive editions of *Low-Band DXing*, I have done a lot of antenna modeling to illustrate antenna properties and behavior but also to design a few antennas that I have installed at my QTH. However, when I went through Marcel's *Advanced Antenna Modeling* manuscript, I realized that the existence of the AutoEZ Excel application makes modeling more automated and time-saving. It came across as a limitation for me that this application did not exist more than a decade ago. AutoEZ makes *modeling by equations* possible using variables and formulas. This also makes it possible to design fairly complex antenna structures more easily and the most important to optimize the model with a few mouse clicks.

I highly recommend *Advanced Antenna Modeling* to get experience with all the clever features AutoEZ offers. It is amazing to discover how Marcel manages to reposition a rather complex antenna structure. He is a master to explain in a clear way many other AutoEZ specific tricks.

Great job Marcel, I am proud to have you as a friend, and I am proud to recognize the real and genuine spirit of amateur radio in your work and publications.

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