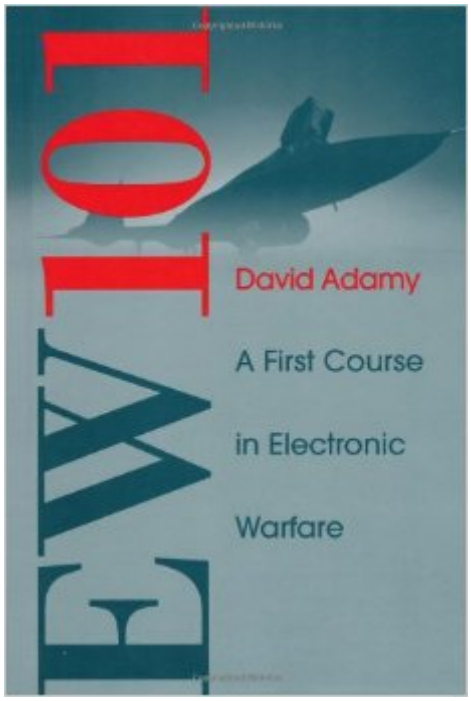
# Ew 101: A First Course In Electronic Warfare (Artech House Radar Library (Hardcover))



## Synopsis

EW 101 has been a popular column in the Journal of Electronic Defense for a number of years. This compilation of tutorial articles from JED provides introductory level electronic warfare instruction for students of the discipline.

## Book Information

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## Customer Reviews

This book is an excellent reference for those profesionals or specialists who are involved in the Electronic Warfare (EW) world. It’s also useful for those who want to learn more about this interesting, complex and important subject. As it can be demonstrated thru the history of the EW, it has played an important role in the military actions related with the use of the electromagnetic spectrum (communications, radar, Infrared, laser and more). I strongly recommend it.

EW101 is a compilation of articles published in the Journal of Electronic Defence, over several years. The level of treatment is semiquantitative. The basic methods in areas like jamming, decoys and simulations are expounded. Readers with an undergraduate background in engineering or science should be able to follow the text. People already in the Electronic Warfare field will find the discussion pretty elementary. But Adamy is writing for those outside the field.The merit of this book is that it gives you familiarity with the key topics and ideas in EW. Enough to qualitatively follow a

technical discussion. Or even perhaps, as the author suggests, for managers of EW engineers, who need to brush up on what their chaps are doing.Adamy also usefully supplies references to more detailed texts and journals. There is a surprising amount of material out there that is declassified.

I really enjoyed this book and found it incredibly useful in my job, which does not require an in depth knowledge of EW. My background is a BS in mechanical engineer and graduated a little over a year ago. I would highly recommend this book to anyone that has to work with EW or even just radar. Although the book it steered towards EW, many radar concepts are explained.

For anyone who wants to understand what Electronic Warfare is, this book is a great introduction.From the basics to advanced usage, this book introduces the reader to the world of EW and sets the stage for EW 102.

This text book gave a great overview into what's happening in Electronic War and how it is done. I liked it. The book provided the analytic formulas to perform gain calculations without being overdependent on the mathematics to understand the basics. The book covered Radar Warning Receivers (RWR) which I'd had no experience with and provided a clear explanation of how they work and what technical parameters are important. I've worked in the industry for a while, but I wished I'd read this 10 years earlier.

My biggest praise for EW 101 by David Adamy is that it's a great textbook. Any textbook that when giving a formula makes sure to tells you the units used for the different variables and how you may get them wrong gets a gold star in my book. It's sad how many textbooks overlook this.The book overlooks electronic communication and radar on a systematic level. It discusses the sets involved in the different types of antennas and receivers. From there it discusses how to analyze a signal (from distance and angle of the transmitter to its frequency), how to catch difficult to receive communication (Low Probilitiy of Intersect signals), jamming, and other things both useful for EW and wireless communications. It then ends on a fairly long discussion on how one simulates signals and processing for testing purposes.The last chapter in fact answers my big question reading this book. Who's the target audience for this book? It can't be people like me who are reading it just to expand their horizons. I assume that group is very small. It could be a â œlearn this to become a EW personâ • learning book for military training, but it doesn't seem like that sort of a book as it's a well-edited compilation of essays the author wrote for a EW journal. The best I could figure out is if

you’re a computer programmer who’s found themselves working on a project to design a EW system and you want to get more understanding of what you’re trying to do. The Simulation chapter almost basically lays out what you’ll need to do. It also explains the level of foreknowledge required. It’s got a lot of help on math but very little on basically terminology (which you can just look up on wikipedia).

Working with AF engineers, I have noticed this on more bookshelves than I could count. I had to know what was so great about this book - its utility is in the clarity of instruction. Equations about link budgets, descriptions about EW, and the diagrams showing uses make this book worth the cost. If your book budget allows, EW 102 is a great addition as well.