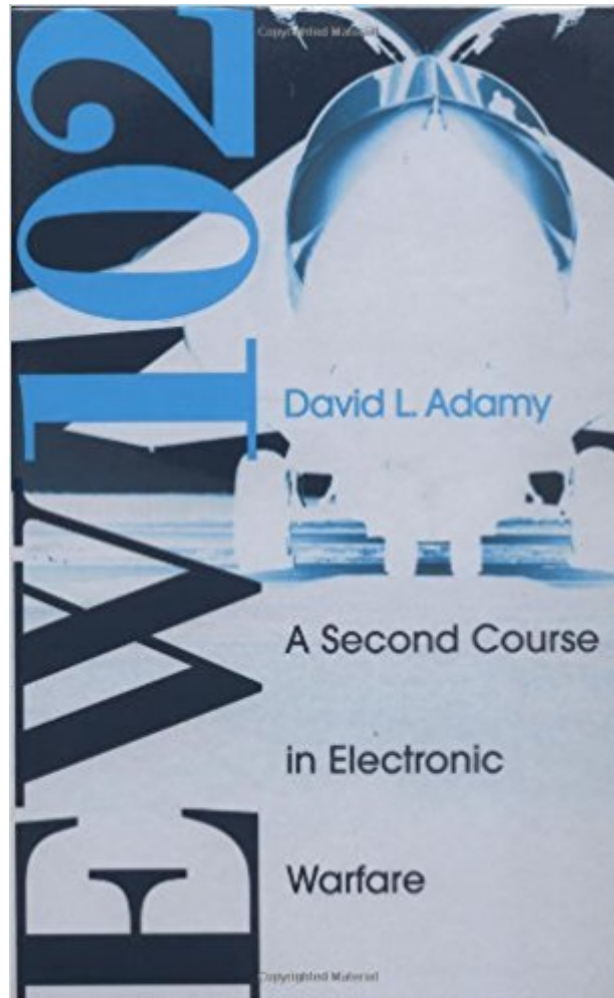




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EW 102: A Second Course In Electronic Warfare



Synopsis

Serving as a continuation of the bestselling book EW 101: A First Course in Electronic Warfare, this new volume is a second book based on the popular tutorials featured in the Journal of Electronic Defense. Without delving into complex mathematics, this book lets you understand important concepts central to EW, so you gain a basic working knowledge of the technologies and techniques deployed in today's EW systems.

Book Information

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Customer Reviews

David L. Adamy is president of Adamy Engineering and previously worked as a systems engineer and program manager on EW and reconnaissance programs delivering systems from "DC to light" on platforms from submarines to space. He has been involved in electronic warfare and related fields as an engineer and a manager for more than 40 years. He is also the author of Introduction to Electronic Warfare Modeling and Simulation, EW 101: A First Course in Electronic Warfare and Preparing and Delivering Effective Technical Presentations, Second Edition (Artech House 2003, 2001, 2000), as well as several other books. Mr. Adamy received his M.S.EE. in communication theory from the University of Santa Clara, and his B.S.EE. from Arizona State University.

For all professionals with an introductory knowledge base that want to further their understanding or use as a reference when a topic dictates checking the facts. I would recommend to anyone working

as or alongside EW professionals.

Great continuation of the famous EW101 book. If you liked the first one, or thought it useful, I suggest getting this and the other two in the series (4 total)

Excellent book!

Mr. Dave Adamy's series, EW 101 and EW 102, are an outstanding collection for the practicing EW professional. Equations and drawings consisely describe the concepts and results from various EW disciplines; radar, communications and satellite are just a few areas that are covered. The second book expands greatly on the area of satellite communications - while not an area normally associated with electronic warfare, satellite communications provide the backbone for many countries social, political and military systems. If there was one downside to this book it would be the price. While the information within is priceless to the EW wizards in industry, its a bit pricy for the blossoming EW student who has to bite the "over-\$100" cost. Find it used if you can, or borrow from a technical library - then decide if it is worth the cost to you.

This book is the logically titled sequel to EW 101. The style is the same. Namely where very intricate and specialised maths and engineering is deprecated. What Adamy has done is reduce a problem down to the minimum physical model that conveys the essential information. This lets a reader, who might not be an engineer in the electronic warfare field, understand what the various measures and countermeasures are about. To this ends, there are fascinating instances scattered throughout the text. One nice example concerns a target plane trying to evade a heat seeking missile. The plane releases a flare, that has more infrared energy than itself. The missile then follows the hotter signal and the plane escapes. One countermeasure is to have the missile's sensor measure and compare the energies at two wavelengths. With enough electronics, it can then discriminate between the flare and the cooler target plane, and track the latter. Of course, the engineering required to perform this is nontrivial and probably classified. But the basic physical picture is very simple. Another useful feature of EW 102 is the appendix. This has answers to problems presented in EW 101. Plus to problems in EW 102. As far as I can ascertain, none of the problems require a computational device more complex than a calculator.

While Mr. Adamy may be an expert, apparently these books were thrown together a little quickly.

Read the text and all will be well. Follow the example problems in the back and you're headed for a train wreck. When he works the problems they are fraught with mistakes, big, blatant mistakes. For someone trying to learn EW the first time these are huge confidence deflators. Find an independent source to check your answers.

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