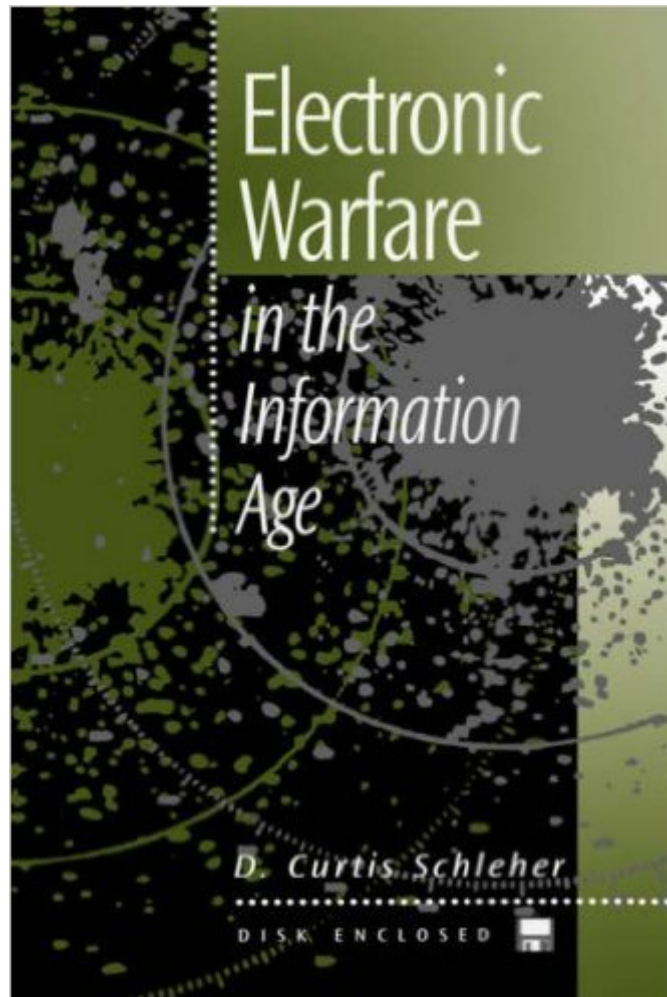


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Electronic Warfare In The Information Age (Artech House Radar Library (Hardcover))



Synopsis

This is an advanced practitioner's guide to current concepts and threats associated with modern electronic warfare (EW). It identifies and explains the newest radar communications threats, and provides practical, how-to information on designing and implementing ECM and ECCM systems. The aim of the text is to help the reader develop ESM systems designed specifically to exploit the vulnerabilities of modern radar. It also identifies and evaluates ESM receiving equipment, and outlines advanced ECM methods, including monopulse deception, coherent radar jamming, and high-ERP generation. Other sections cover modern ECCM countermeasure techniques, the impact of new stealth technology on ESM and ECM requirements, and jammer upgrading procedures.

Book Information

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Customer Reviews

This book brings the reader up to date on almost every aspect of modern Electronic Warfare, and is well worth reading. But I must add two caveats. First, Schleher covers so much ground in one volume that a great deal of background material is necessarily left out. The reader needs to be reasonably familiar with military electronics and the relevant aspects of physics to understand a lot of the material presented here. Indeed, in a few places, such as the discussion in Section 8.1.1 of high-power microwave weapons, so much has been left out that I doubt whether anybody who lacks specialized knowledge of that particular topic can infer the implications of what Schleher says. My second caveat is that, perhaps because of space limitations, the book contains essentially no

material relating the great mass of technical information it provides to operational doctrine and the tactical implications of operational doctrine. Given that it's impossible to put all of the very latest-and-greatest technical innovations into every weapon and every platform (because it would cost too much, add too much weight, take up too much space, and make maintenance inordinately difficult) the choice of what to use where has to be made on the basis of how the platform or weapon is to be used, and that can only be determined by considering operational doctrine. Many engineers, and even some military personnel, tend to overlook this, so in a book like Schleher's it would be invaluable to have this relationship discussed. But it isn't. However, I found the book fascinating and informative.

This is a good place to expanded your knowledge on the Electronic warfare side of a battle. The ins and outs of using Radio, Radar, TV to fight a modern 21st centruy battle. This book cover subjects such as how Command and Control works to how people using Signal intelligence(Sigint) and Electronic Intelligence (Elint) to find thier opponets Headquarters. As before this is a good book to expand your knowledge. Maybe not start, but at least to expand any knowledge you have

Tactical data links are the key elements for the evolution of EW systems performances inside a battlefield. "Dynamic libraries" of passive and active EW systems make those systems, "adaptive" to the threat environment, the variations of which run according to the INFORMATION playing in "real time".

I am an EW Architect with 37 years of leading edge technology development and demonstration experience. I originally saw this book and, based on its title, thought it was focused on information operations. I don't work IO so I did not buy it. A couple of years ago, a colleague recommended the book and lent me his copy to review. I purchased the book 2 weeks later. The book provides an excellent overview of EW and electronic attack technologies and techniques. I recommend this book to anyone whose job involves tactical EW or Electronic Attack.

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