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This is an older, but still valuable text on electronic warfare. This text serves as a good introduction to the fundamental concepts in EW. It is quite readable and serves as an excellent expansion on many of the topics in the very good EW 101/102/103 series by Adamy. If purchased for this purpose you will be satisfied.

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Dr. Poisel is also the author of Modern Communications Jamming Principles and Techniques, Second Edition, Introduction to Communication Electronic Warfare Systems, Second Edition, Target Acquisition in Communication Electronic Warfare Systems, and Electronic Warfare Target Location Methods (Artech House, 2011, 2008, 2004, 2005).

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This book clearly describes all the radar detection and jamming equations you need to design and analyze search and track radars. It reviews the hardware, theories, and techniques involved in modern EW systems signal processing and discusses present and future trends in EW technology.

This enhanced and fully revised 4th Edition of Radar and Electronic Warfare Principles for the Non-specialist presents a comprehensive set of radar and electronic warfare principles including many of the latest applications with the addition of new EW principles.

Here's an advanced practitioner's guide to the latest concepts and threats associated with modern electronic warfare (EW). This new book identifies and explains the newest radar and communications threats, and provides EW and radar engineers, managers, and technical professionals with practical, "how-to" information on designing and implementing ECM and ECCM systems.

This comprehensive engineering-level resource provides an introduction to electronic warfare (EW) for communication systems. Extensively referenced with over 600 equations, it details the components, systems, and operations of electronic warfare systems dedicated to protecting and attacking military communications networks. The volume provides a complete understanding of how modern direction finders for communication signals work, along with their limitations. The book also helps the reader acquire a working knowledge of hyperbolic emitter location technologies, and shows how to measure performance, defining the basic operations necessary for communication EW systems.

A comprehensive and accessible introduction to electronic warfare and defense systems. Description of electronic defense systems and weapons systems. Explains vulnerable parts of radar and the limitations of weapons systems. Details effectiveness of defense systems.

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.

Written by a prominent expert in the field, this authoritative new resource presents anti-ship missile (ASM)

electronic protection (EP) techniques designed to enhance accurate target classification currently being developed by personnel from the People ' s Republic of China and other nations. This book provides a comprehensive introduction to modern electronic warfare (EW) in an era of information warfare (IW). It explores the capabilities of coherent radar and digital signal processing to rapidly and accurately classify targets. Both naval and air electronic EW are covered in this resource. This book gives insight into modern EW as an information battle and includes guidance on properly testing the effectiveness of electronic attack (EA) systems. Pulsed Doppler radar basics including, electromagnetic pulse, dynamic range, gain control, and Doppler effects are presented. A summary of the ASM sensor and EA model is provided and readers find coverage of the radar range equation, burn through, and the range Doppler map and imaging. Special topic-extended target classifications including, false, decoys, and chaff are explained. Special topic ASM EP waveforms and multiple receiver EP are also covered. This book explores features of algorithms to optimize combining multiple parameters and systems. Moreover, it explains several algorithms proposed by PRC personnel to implement optimal two-channel processing that mitigates cover noise EA.

A practical guide to the principles of radio communications for both civilian and military applications In this book, the author covers both the civilian and military uses of technology, focusing particularly on the applications of radio propagation and prediction. Divided into two parts, the author introduces the basic theory of radio prediction before providing a step-by-step explanation of how this theory can be translated into real-life applications. In addition, the book presents up-to-date systems and methods to illustrate how these applications work in practice. This includes systems working in the HF bands and SHF. Furthermore, the author examines the performance of these systems, and also the effects of noise, interference and deliberate jamming, as well as the performance of jamming, detection and intercept systems. Particular attention is paid to the problems caused by Radio Controlled Improvised Explosive Devices (RCIEDs). Key Features: A practical handbook on the topic of radio communications and propagation Written by an expert in both the civilian and military applications of the technology Focuses on methods such as radio and radar jamming, and radio-controlled improvised explosive devices (IEDs) Contains problems and solutions to clarify key topics

This popular series of tutorials, featured over a period of years in the Journal of Electronic Defense, is now available in a single volume. Organized into chapters with new introductory and supplementary material from the author, you get clear, concise and well-illustrated examinations of critical topics such as antenna parameters, receiver sensitivity, processing tasks, and search strategies, LPI signals, jamming, communication links, and simulation. The chapters define key terms and explain how and why particular technologies are relevant to electronic defense. Detailed charts, diagrams and formulas give you the practical knowledge you need to apply specific techniques in the field.

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