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This unique book covers the whole field of electronic warfare modeling and simulation at a systems level, including chapters that describe basic electronic warfare (EW) concepts. Written by a well-known expert in the field with more than 24 years of experience, the book explores EW applications and techniques and the radio frequency spectrum, with primary emphasis on HF (high frequency) to microwave.

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In the Basic Electronic Warfare Modeling course, you will develop techniques for modeling and simulation (M&S) of radio-frequency (RF) electronic warfare (EW) systems. You will be introduced to the three “ pillars ” of EW: Electronic Attack (EA) systems, Electronic Protection (EP) techniques, and Electronic Support (ES).

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111 Simulation in the EW Field. 2: 12 EW Simulation Approaches. 3: 122 Simulation. 4: 123 Emulation. 5: 13 Simulation for Training. 6: 16 Fidelity in EW Simulation. 7: 17 The Tactical Big Picture. 8: 511 Antenna Pattern Definitions. 106: 512 Polarization. 107: 513 Types of Antennas. 109: ... Introduction to Electronic Warfare Modeling

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INTRODUCTION . The term electronic protection has been used inconsistently in the literature to mean several things related to information security. We interpret it here in the strict sense of methods of protecting information systems from attacks that do not require an electrical or software connection to the target but exploit electromagnetic ...

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.

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.

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.

Offering engineers a thorough examination of special, more advanced aspects of digital wideband receiver design, this practical book builds on fundamental resources on the topic, helping you gain a more comprehensive understanding of the subject. This in-depth volume presents a detailed look at a complete receiver design, including the encoder. Moreover, it discusses the detection of exotic signals and provides authoritative guidance on designing receivers used in electronic warfare. From frequency modulation and biphase shifting keys, to parameter encoders in electronic warfare receivers and the use of the simulation and probability density function to predict the false alarm parameter, this book focuses on critical topics and techniques that help you design digital wideband receivers for top performance. The authoritative reference is supported with over 310 illustrations and more than 180 equations.

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This book presents a comprehensive set of radar and electronic warfare principles including many of the latest applications in a clear and consistent manner. Following on from the 3rd edition of this book (2004) Radar and Electronic Warfare Principles for the Non-specialist, 4th Edition, remains true to the traditional strength of the book, providing radar principles for the non-specialist, and also now introducing EW principles. All radar-related material has been reviewed, revised and enhanced as necessary. New to this edition: Significant revisions to; target signal-to-noise ratio, target detection theory, array antennas, radar measurements and tracking, and target signatures The addition of new EW-related material addressing electronic support (ES), electronic attack (EA), and electronic protection (EP) The advanced radar concepts chapter has been revised, including the addition of a section on modern multi-function, -mode, -mission radar systems. Most of the chapters are stand-alone allowing the reader to be selective and still benefit from the content. Exercises at the end of each chapter are provided to reinforce the concepts presented and illustrate their applications, making this book ideal for academic learning, training courses or self-study. Topics covered include: electromagnetic propagation, target detection, antennas, measurements and tracking, radar cross section and system applications. By reading this book, you should expect to be able to conduct a respectable, first-order radar system design or analysis and perform a first-order EW system design or analysis. This book will also provide you with the skills to critique the designs or analysis of others.

Electronic Warfare is a unique and convenient introduction to electrical engineers and researchers. In scientific world it is an invaluable aid. For the students with limited time for researching data on anti-jamming and jamming war, the book in your hand is the most accessible. Inside, you will find out how to: Design and Simulation Direct Sequence Spread Spectrum Modem. Channel Characteristics and Channel Modeling. Design and Simulation of Direct Sequence Spread Spectrum Jammer. Simulation Results and Performance Analysis.

Information warfare is emerging as the new war fighting paradigm of the U.S. and many of its allies. This book is the first in the field to address communication electronic warfare (EW) systems in the context of information warfare. Authored by a recognized leading authority, the book includes a unique formulation of EW system performance and presents results of system simulations that have not appeared previously in any related literature. Essential reading for EW engineers and researchers working in defense, aerospace, and military capacities, the book explores the properties of information, the properties of information communication means, information theory, EW system architectures, and two operational simulations, one in Northeast Asia and the other in urban terrain.

Look to this informative new reference for an in-depth, comprehensive treatment of the principles of electronic warfare (EW). Written by leading experts in the field, this authoritative book takes a systematic approach to exploring EW theory, mathematical models, and quantitative analysis. You get a detailed examination of the basic targets of EW operations, a thorough presentation of critical radar jamming methods, and definitions of the effectiveness criteria for EW systems and techniques.

An excellent resource for engineers and technicians alike, this practical design guide offers a comprehensive and easy-to-understand overview of the most important aspects and components of radio frequency equipment and systems. The book applies theoretical

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fundamentals to real-world issues, heavily relying on examples from recent design projects. Key discussions include system design schemes, circuits and components for system evaluations and design, RF measurement instrumentation, antennas and associated hardware, and guidelines for purchasing test equipment. The book also serves as a valuable on-the-job training resources for sales engineers and a graduate-level text for courses in this area.

This cutting-edge resource introduces the basic concepts of passive bistatic radar, such as bistatic geometry, bistatic radar equation and analysis of different illuminating signals. These techniques, although known for almost a century, have not been developed intensively for decades, mainly due to technical limitations, but today, the passive radar concept can be realized in practice, and is of great interest for military and civilian users. This book provides insight into understanding the potential and limitations of passive radar systems, as well as the differences between signal processing in active and passive radar. Each of the signal processing stages typically applied in passive radar is described, including digital beamforming, clutter removal, target detection, localization and tracking. These concepts are illustrated with both simulated and measured data along with examples of passive radar systems. Correlation processing, which is crucial for passive radar operation, is presented, as well as practical approaches for calculating the cross-ambiguity function. The problems of range and velocity-cell migration are also introduced. The book analyzes and compares different antenna array geometries to show readers the appropriate solution for a particular scenario of passive radar. Cartesian tracking is also presented, based on the extended Kalman filter. Parallel and sequential updating approaches are introduced and compared. These concepts are illustrated with both simulated and measured data along with examples of passive radar systems, making this book useful for both novice and advanced practitioners.

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