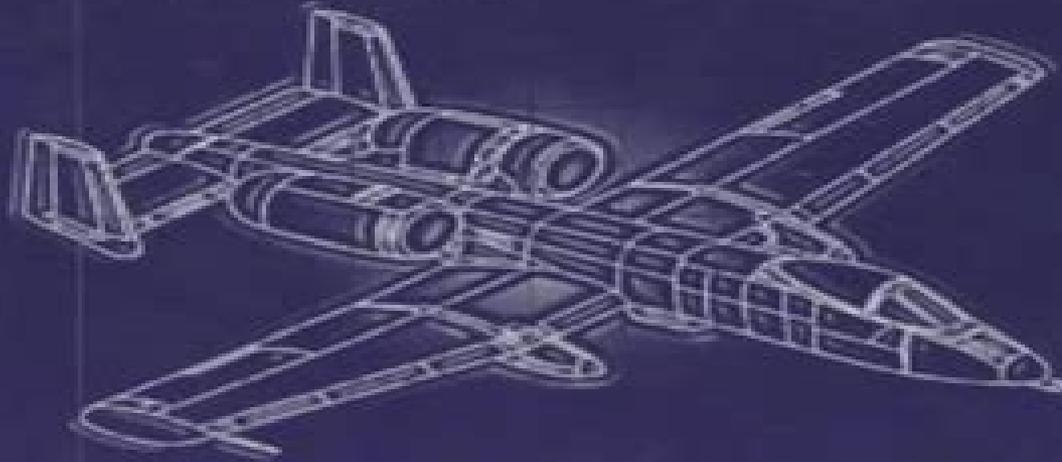


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Electronic Warfare Simulation David L. Adamy, 1995-06-01

The Micro-Doppler Effect in Radar, Second Edition Victor C. Chen, 2019-02-28 Written by a prominent expert in the field this updated and expanded second edition of an Artech House classic includes the most recent breakthroughs in vital sign and gender recognition via micro radar as well as covering basic principles of Doppler effect and micro Doppler effect and describing basic applications of micro Doppler signatures in radar The book presents detailed procedures about how to generate and analyze micro Doppler signatures from radar signals Readers will learn how to model and animate an object such as human spinning top rotating rotor blades with movement simulation of radar returns from the object and generating micro Doppler signature The book includes coverage of the Google project Soli which demonstrated the use of radar micro Doppler effect to sense and recognize micro motions of human hand gesture for controlling devices It also discusses noncontact detection of human vital sign micro motions of breathing and heart beating using radar another important application of radar micro Doppler sensors Detailed MATLAB source codes for simulation of radar backscattering from targets with various motions are provided along with source codes for generating micro Doppler signatures and analyzing characteristics of targets

Signal Processing for Passive Bistatic Radar Mateusz Malanowski, 2019-08-31 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

[Deep Learning Applications of Short-Range Radars](#) Avik Santra, Souvik Hazra, 2020-09-30 This exciting new resource covers various emerging applications of short range radars including people counting and tracking gesture sensing human activity recognition air drawing material classification object classification vital sensing by extracting features such as range Doppler Images RDI range cross range images Doppler Spectrogram or directly feeding raw ADC data to the classifiers The book also presents how deep learning architectures are replacing conventional radar signal processing pipelines enabling new applications and results It describes how deep convolutional neural networks DCNN long short term memory LSTM feedforward networks regularization optimization algorithms connectionist This exciting new resource presents emerging applications of artificial intelligence and deep learning in short range radar The book covers applications ranging from industrial consumer space to emerging automotive applications The book presents several human machine interface HMI applications such as gesture recognition and sensing human activity classification air writing material classification vital sensing people sensing people counting people localization and in cabin automotive occupancy and smart trunk opening The underpinnings of deep learning are explored outlining the history of neural networks and the optimization algorithms to train them Modern deep convolutional neural network DCNN popular DCNN architectures for computer vision and their features are also introduced The book presents other deep learning architectures such as long short term memory LSTM auto encoders variational auto encoders VAE and generative adversarial networks GAN The application of human activity recognition as well as the application of air writing using a network of short range radars are outlined This book demonstrates and highlights how deep learning is enabling several advanced industrial consumer and in cabin applications of short range radars which weren't otherwise possible It illustrates various advanced applications their respective challenges and how they are been addressed using

different deep learning architectures and algorithms *Fundamentals of Short-range FM Radar* Igor V. Komarov, Sergey M. Smolskiy, 2003 Here s a unique new resource that offers you a solid understanding of the fundamental theory operation principles and applications of short range frequency modulated continuous wave FM CW radar You learn how to choose the structural scheme of short range FM radar and determine the optimal algorithm of useful signal processing necessary for ensuring the technical characteristic of radar Moreover this practical reference shows you how to ensure the minimum level of radar signal parasitic amplitude calculate modulation signal distortion and compensate for nonlinear distortion

Cognitive Radar: The Knowledge-Aided Fully Adaptive Approach, Second Edition Joseph R. Guerci ,2020-06-30 This highly anticipated second edition of the bestselling Cognitive Radar The Knowledge Aided Fully Adaptive Approach the first book on the subject provides up to the minute advances in the field of cognitive radar CR Adaptive waveform methods are discussed in detail along with optimum resource allocation and radar scheduling Chronicling the field of cognitive radar CR this cutting edge resource provides an accessible introduction to the theory and applications of CR and presents a comprehensive overview of the latest developments in this emerging area It covers important breakthroughs in advanced radar systems and offers new and powerful methods for combating difficult clutter environments You find details on specific algorithmic and real time high performance embedded computing HPEC architectures This practical book is supported with numerous examples that clarify key topics and includes more than 370 equations **EW 101** David Adamy, 2001 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 **Modeling and Simulation for Military Operations II** William K. Schum, Dawn A. Trevisani, 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Modelling, Simulation and Optimization** Gregorio Romero, Luisa Martinez, 2010-02-01 Computer Aided Design and system analysis aim to find mathematical models that allow emulating the behaviour of components and facilities The high competitiveness in industry the little time available for product development and the high cost in terms of time and money of producing the initial prototypes means that the computer aided design and analysis of products are taking on major importance On the other hand in most areas of engineering the components of a system are interconnected and belong to different domains of physics mechanics electrics hydraulics thermal When

developing a complete multidisciplinary system it needs to integrate a design procedure to ensure that it will be successfully achieved Engineering systems require an analysis of their dynamic behaviour evolution over time or path of their different variables The purpose of modelling and simulating dynamic systems is to generate a set of algebraic and differential equations or a mathematical model In order to perform rapid product optimisation iterations the models must be formulated and evaluated in the most efficient way Automated environments contribute to this One of the pioneers of simulation technology in medicine defines simulation as a technique not a technology that replaces real experiences with guided experiences reproducing important aspects of the real world in a fully interactive fashion iii In the following chapters the reader will be introduced to the world of simulation in topics of current interest such as medicine military purposes and their use in industry for diverse applications that range from the use of networks to combining thermal chemical or electrical aspects among others We hope that after reading the different sections of this book we will have succeeded in bringing across what the scientific community is doing in the field of simulation and that it will be to your interest and liking Lastly we would like to thank all the authors for their excellent contributions in the different areas of simulation

Radar System Analysis and Modeling David Knox Barton,2005 Accompanying disc includes an evaluation version of Mathcad11 which will expire 120 days after installation

Modeling and Simulation ,1981 **Sci-tech News** ,2003 **Modeling, Simulation, and Visualization for Real and Virtual Environments** Steve Kessinger,1999 **Proceedings of the Military, Government and Aerospace Simulation** Michael J. Chinni,1998 This proceedings features papers on land sea air space DIS virtual environments within the military government aerospace arenas **Challenge of Future EW System Design** ,1994 **Proceedings of the IEEE 1986 National Aerospace and Electronics Conference, NAECON 1986** ,1986 Proceedings of the IEEE 1988 National Aerospace and Electronics Conference, NAECON 1988 ,1988

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