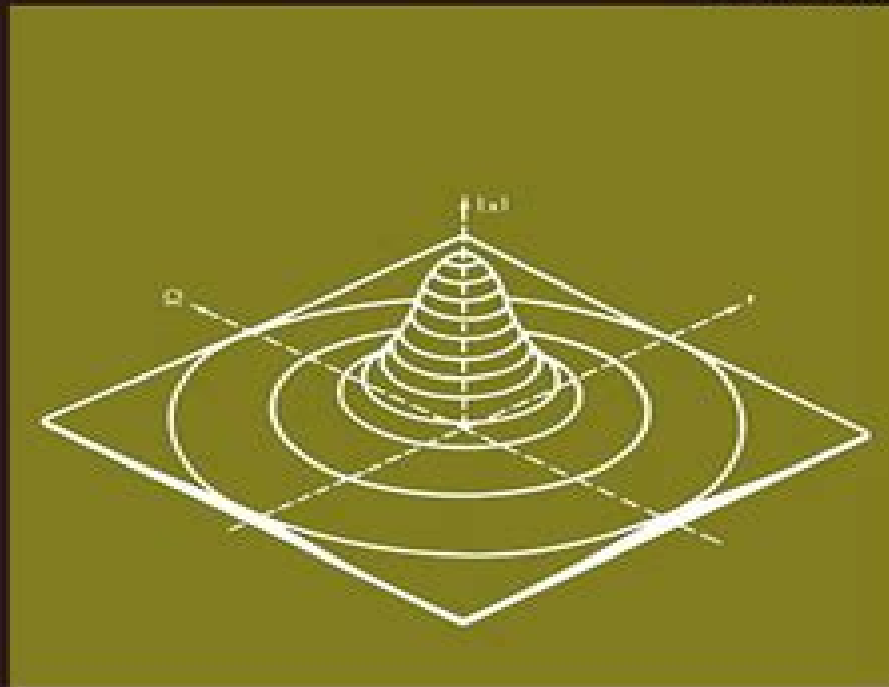


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# Sophisticated Signals and the Uncertainty Principle in Radar

*D. E. Vakman*



# Sophisticated Signals And The Uncertainty Principle In Radar

**Anthony D. Whalen**



## **Sophisticated Signals And The Uncertainty Principle In Radar:**

*Sophisticated Signals and the Uncertainty Principle in Radar* D.E. Vakmann, 2012-12-06 This book is devoted to some of the problems encountered in the theory of sophisticated signals used in radar. The term sophisticated signal is understood to mean a signal for which the product of the signal duration by the spectrum width substantially exceeds unity. Although it is impossible to draw an exact borderline between simple and sophisticated signals, the term sophisticated signal is sufficient to define one of the principal characteristics of modern radar. Recently various sophisticated signals: frequency modulated pulses, coded groups, phase modulated signals, etc. have found use in radar. This makes it possible to improve the resolution to ensure simultaneous measurements of the range and range rate of a target to electrically scan over finite angular dimensions, etc. Although the realization of such potentialities is associated with substantial difficulties, one can say with certainty that classical radar technology, which uses simple signals at constant frequency and duty cycle, yields to more complex methods based on the use of wide band signals of the sophisticated structure. The properties of radar signals which characterize the measurement of a target's range and range rate are described by the Woodward ambiguity function. The role of this function is similar to that of the antenna pattern, i.e. the ambiguity function defines the accuracy and resolution of the range and range rate measurements to the same extent as the antenna pattern defines the accuracy and resolution of the azimuth and elevation measurements. *Sophisticated Signals and the Uncertainty Principle in Radar* D. E. Vakman, 1965

**Sophisticated Signals And the Uncertainty Principle in Radar [by] D.E. Vakman. Edited by Ernest Jacobs.**

**Translated by K.N. Trirogoff** D. E. Vakman, 1968      **Detection of Signals in Noise** Anthony D. Whalen, 2013-09-11

*Detection of Signals in Noise* serves as an introduction to the principles and applications of the statistical theory of signal detection. The book discusses probability and random processes, narrowband signals, their complex representation, and their properties described with the aid of the Hilbert transform and Gaussian derived processes. The text also describes the application of hypothesis testing for the detection of signals and the fundamentals required for statistical detection of signals in noise. Problem exercises, references, and a supplementary bibliography are included after each chapter. Students taking a graduate course in signal detection theory. **Resonance and Aspect Matched Adaptive Radar** Terence William

Barrett, 2012 The book describes a new form of radar for which the target response is frequency, i.e. resonance dependent. The book provides both prototype designs and empirical results collected from a variety of targets. The new form of radar called RAMAR (Resonance and Aspect Matched Adaptive Radar) advances radar mere ranging and detection to the level of RF spectroscopy and permits an advance of spectroscopic methods from optical through infra red and into the RF spectral range. The book will describe how a target's response can be a function of frequency components in the transmitted signal's envelope as well as the signal's carrier. **New Trends in Applied Harmonic Analysis, Volume 2** Akram Aldroubi, Carlos

Cabrelli, Stéphane Jaffard, Ursula Molter, 2019-11-26 This contributed volume collects papers based on courses and talks

given at the 2017 CIMPA school Harmonic Analysis Geometric Measure Theory and Applications which took place at the University of Buenos Aires in August 2017 These articles highlight recent breakthroughs in both harmonic analysis and geometric measure theory particularly focusing on their impact on image and signal processing The wide range of expertise present in these articles will help readers contextualize how these breakthroughs have been instrumental in resolving deep theoretical problems Some topics covered include Gabor frames Falconer distance problem Hausdorff dimension Sparse inequalities Fractional Brownian motion Fourier analysis in geometric measure theory This volume is ideal for applied and pure mathematicians interested in the areas of image and signal processing Electrical engineers and statisticians studying these fields will also find this to be a valuable resource

**Modern Signal Processing** Thomas Kailath, 1986-08

**Radar Systems, Peak Detection and Tracking** Michael Kolawole, 2003-01-20 As well as being fully up to date this book provides wider subject coverage than many other radar books The inclusion of a chapter on Skywave Radar and full consideration of HF OTH issues makes this book especially relevant for communications engineers and the defence sector Explains key theory and mathematics from square one using case studies where relevant Designed so that mathematical sections can be skipped with no loss of continuity by those needing only a qualitative understanding Theoretical content presented alongside applications and working examples make the book suitable to students or others new to the subject as well as a professional reference

**Time-Frequency Signal Analysis and Processing** Boualem Boashash, 2015-12-11 Time Frequency Signal Analysis and Processing TFSAP is a collection of theory techniques and algorithms used for the analysis and processing of non stationary signals as found in a wide range of applications including telecommunications radar and biomedical engineering This book gives the university researcher and R a Getting Started chapter enabling readers to start using the algorithms on simulated and real examples with the TFSAP toolbox compare the results with the ones presented in the book and then insert the algorithms in their own applications and adapt them as needed Two new chapters and twenty three new sections including updated references New topics including efficient algorithms for optimal TFDs with source code the enhanced spectrogram time frequency modelling more mathematical foundations the relationships between QTFDs and Wavelet Transforms new advanced applications such as cognitive radio watermarking noise reduction in the time frequency domain algorithms for Time Frequency Image Processing and Time Frequency applications in neuroscience new chapter A comprehensive tutorial introduction to Time Frequency Signal Analysis and Processing TFSAP accessible to anyone who has taken a first course in signals Key advances in theory methodology and algorithms are concisely presented by some of the leading authorities on the respective topics Applications written by leading researchers showing how to use TFSAP methods

Time Frequency Analysis Boualem Boashash, 2003-10-16 Time Frequency Signal Analysis and Processing covers fundamental concepts principles and techniques treatment of specialised and advanced topics methods and applications including results of recent research This book deals with the modern methodologies key techniques and concepts that form

the core of new technologies used in IT multimedia telecommunications as well as most fields of engineering science and technology It focuses on advanced techniques and methods that allow a refined extraction and processing of information allowing efficient and effective decision making that would not be possible with classical techniques The Author fellow of IEEE for Pioneering contributions to time frequency analysis and signal processing education is an expert in the field having written over 300 papers on the subject over a period of 25 years This is a REAL book not a mere collection of specialised papers making it essential reading for researchers and practitioners in the field of signal processing The most comprehensive text and reference book published on the subject all the most up to date research on this subject in one place Key computer procedures and code are provided to assist the reader with practical implementations and applications This book brings together the main knowledge of time frequency signal analysis and processing TFSAP from theory and applications in a user friendly reference suitable for both experts and beginners Sampling Theory, a Renaissance Götz E. Pfander, 2015-12-08

Reconstructing or approximating objects from seemingly incomplete information is a frequent challenge in mathematics science and engineering A multitude of tools designed to recover hidden information are based on Shannon's classical sampling theorem a central pillar of Sampling Theory The growing need to efficiently obtain precise and tailored digital representations of complex objects and phenomena requires the maturation of available tools in Sampling Theory as well as the development of complementary novel mathematical theories Today research themes such as Compressed Sensing and Frame Theory re energize the broad area of Sampling Theory This volume illustrates the renaissance that the area of Sampling Theory is currently experiencing It touches upon trendsetting areas such as Compressed Sensing Finite Frames Parametric Partial Differential Equations Quantization Finite Rate of Innovation System Theory as well as sampling in Geometry and Algebraic Topology **Wavelet Theory and Its Applications** Randy K. Young, 2012-12-06

The continuous wavelet transform has deep mathematical roots in the work of Alberto P Calderon His seminal paper on complex method of interpolation and intermediate spaces provided the main tool for describing function spaces and their approximation properties The Calderon identities allow one to give integral representations of many natural operators by using simple pieces of such operators which are more suited for analysis These pieces which are essentially spectral projections can be chosen in clever ways and have proved to be of tremendous utility in various problems of numerical analysis multidimensional signal processing video data compression and reconstruction of high resolution images and high quality speech A proliferation of research papers and a couple of books written in English there is an earlier book written in French have emerged on the subject These books so far are written by specialists for specialists with a heavy mathematical flavor which is characteristic of the Calderon Zygmund theory and related research of Duffin Schaeffer Daubechies Grossman Meyer Morlet Chui and others Randy Young's monograph is geared more towards practitioners and even non specialists who want and probably should be cognizant of the exciting proven as well as potential benefits which have either already

emerged or are likely to emerge from wavelet theory

**Wireless Communications Over Rapidly Time-Varying Channels**

Franz Hlawatsch, Gerald Matz, 2011-05-04 As a result of higher frequencies and increased user mobility researchers and systems designers are shifting their focus from time invariant models to channels that vary within a block Wireless Communications Over Rapidly Time Varying Channels explains the latest theoretical advances and practical methods to give an understanding of rapidly time varying channels together with performance trade offs and potential performance gains providing the expertise to develop future wireless systems technology As well as an overview of the issues of developing wireless systems using time varying channels the book gives extensive coverage to methods for estimating and equalizing rapidly time varying channels including a discussion of training data optimization as well as providing models and transceiver methods for time varying ultra wideband channels An introduction to time varying channel models gives in a nutshell the important issues of developing wireless systems technology using time varying channels Extensive coverage of methods for estimating and equalizing rapidly time varying channels including a discussion of training data optimization enables development of high performance wireless systems Chapters on transceiver design for OFDM and receiver algorithms for MIMO communication channels over time varying channels with an emphasis on modern iterative turbo style architectures demonstrates how these important technologies can optimize future wireless systems

**Time-Frequency/Time-Scale Analysis** Patrick Flandrin, 1998-09-29 This highly acclaimed work has so far been available only in French It is a detailed survey of a variety of techniques for time frequency time scale analysis the essence of Wavelet Analysis This book has broad and comprehensive coverage of a topic of keen interest to a variety of engineers especially those concerned with signal and image processing Flandrin provides a discussion of numerous issues and problems that arise from a mixed description in time and frequency as well as problems in interpretation inherent in signal theory Detailed coverage of both linear and quadratic solutions Various techniques for both random and deterministic signals

**Proceedings, Fourth Conference on Numerical Simulation of Plasmas** United States. Naval Research Office, 1970

Proceedings Jay P. Boris, Ramy A Shanny, 1972

**Fourier Techniques and Applications** John F. Price, 2012-12-06 The first systematic methods of Fourier analysis date from the early eighteenth century with the work of Joseph Fourier on the problem of the flow of heat A brief history is contained in the first paper Given the initial temperature at all points of a region the problem was to determine the changes in the temperature distribution over time Understanding and predicting these changes was important in such areas as the handling of metals and the determination of geological and atmospheric temperatures Briefly Fourier noticed that the solution of the heat diffusion problem was simple if the initial temperature distribution was sinusoidal He then asserted that any distribution can be decomposed into a sum of sinusoids these being the harmonics of the original function This meant that the general solution could now be obtained by summing the solutions of the component sinusoidal problems This remarkable ability of the series of sinusoids to describe all reasonable functions the

sine qua non of Fourier analysis and synthesis has led to the routine use of the methods originating with Fourier in a great diversity of areas astrophysics computing economics electrical engineering geophysics information theory medical engineering optics petroleum and mineral exploration quantum physics and spectroscopy to name a few

*Applications of Holography and Optical Data Processing* E. Marom, A. A. Friesem, E. Wiener-Avnear, 2013-10-22 Applications of Holography and Optical Data Processing contains the proceedings of the International Conference on Applications of Holography and Optical Data Processing held in Jerusalem in August 1976 The conference is attended by eminent scientists in the field of optics characterized by high level scientific presentations and discussions The collection is a representation of research on the cutting edge of applied and theoretical optics The four day meeting covers topics on holographic applications in medicine interferometry display storage and retrieval as well as image processing measuring techniques spectroscopy and recording materials and devices The participants of the conference believe in the promising future of research on Optical Data Processing as long as techniques are complemented by electronic support The book will be of value to electronics engineers technicians computer scientists and computer engineers

Analysis of Controlled Dynamical Systems B. Bonnard, B. Bride, J.P. Gauthier, I. Kupka, 2013-03-07 The conference Analysis of Controlled Dynamical Systems was held in July 1990 at the University of LYON FRANCE About hundred participants attended this conference which lasted four days There were 50 speakers from departments of Engineering and Mathematics in east and west Europe USA and USSR The general subject of the conference was system theory The main topics were optimal control structure and control of nonlinear systems stabilization and observers differential algebra and systems theory nonlinear aspects of Hoc theory rigid and flexible mechanical systems nonlinear analysis of signals We are indebted to the scientific committee John BAILLIEUL Michel FLIESS Bronislaw JAKUBCZYCK Hector SUSSMANN Jan WILLEMS We gratefully acknowledge the time and thought they gave to this task We would also like to thank Chris BYRNES for arranging for the publication of these proceedings through the series Progress in Systems and Control Theory BIRKHAUSER Finally we are very grateful to the following institutions who through their financial support contributed essentially to the success of this conference CNRS Special year Systemes Dynamiques DRET MEN DAGIC GRECO AUTOMATIQUE Claude Bernard Lyon I University Entreprise Rhone Alpes International Conseil General du RhOne the cities of LYON and VILLEURBANNE

New Technical Books New York Public Library, 1968

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