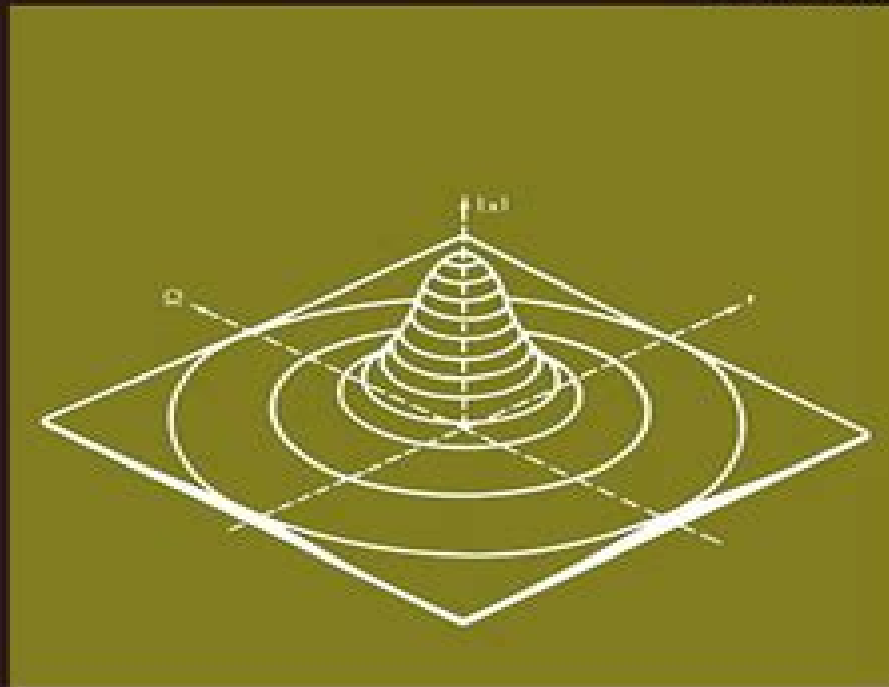


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# Sophisticated Signals and the Uncertainty Principle in Radar

*D. E. Vakman*



# Sophisticated Signals And The Uncertainty Principle In Radar

**Siddappa N.Byrareddy**



## **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 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

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**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

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