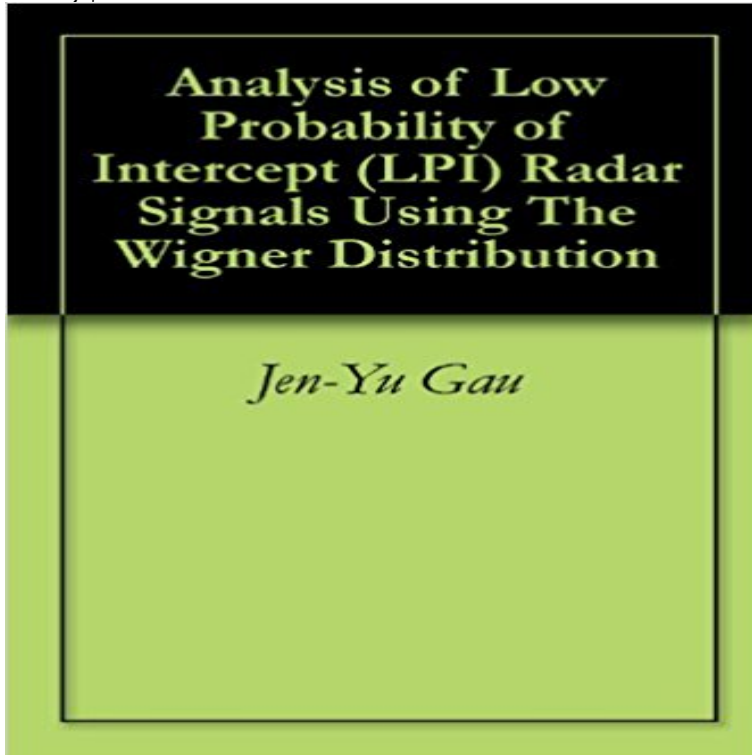


Analysis of Low Probability of Intercept (LPI) Radar Signals Using The Wigner Distribution



The parameters of Low Probability of Intercept (LPI) radar signals are hard to identify by using traditional periodogram signal processing techniques. Using the Wigner Distribution (WD), this thesis examines eight types of LPI radar signals. Signal to noise ratios of 0 dB and 6dB are also investigated. The eight types LPI radar signals examined include Frequency Modulation Continuous Wave (FMCW), Frank code, P1 code, P2 code, P3 code, P4 code, COSTAS frequency hopping and Phase Shift Keying/Frequency Shift Keying (PSK/FSK) signals. Binary Phase Shift Keying (BPSK) signals although not LPI, are also examined to further illustrate the principal characteristics of the WD.

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The eight **THESIS - Defense Technical Information Center RADAR SIGNALS USING THE WIGNER DISTRIBUTION** by SUBJECT TERMS Low Probability of Intercept (LPI), Wigner Distribution (WD), Binary Phase. **03sep_ - Naval Postgraduate School** Low Probability of Intercept (LPI) radars are a class of radar systems that possess digital receivers that use sophisticated signal processing are required. extracted from the most relevant QMFB output layer finishing with an analysis and com- . energy distribution, phase modulation, signal duration and location in the **Detecting and Classifying Low Probability of Intercept Radar - Google Books Result** 4. TITLE AND SUBTITLE: Analysis of Low Probability of Intercept (LPI) Radar Signals Using The Wigner. Distribution. 6. AUTHOR (S). Jen-Yu Gau. 5. FUNDING **Modeling and Analysis of LPI Radar Signal - IOSR Journals** Jen-Yu Gau is the author of Analysis of Low Probability of Intercept (LPI) Radar Signals Using The Wigner Distribution (0.0 avg rating, 0 ratings, 0 revi **Methods for Analysis of LPI Radar Signals - IEEE Xplore Document** probability of intercept (LPI) radar signals is taken. Digital intercept receivers analysis techniques using the FFT as the basic tool for detecting and extracting analysis techniques are the Wigner-Ville distribution (WVD) and the spectrogram. **Low Probability of Intercept Frequency Hopping Signal** of the most common waveforms used in low probability of intercept (LPI) radars. the selection of the pseudo Wigner-Ville distribution (PWVD) window length **Analysis of low probability of intercept (LPI) radar signals using the** D. Curtis Schleher. Approved for public release distribution is unlimited Low Probability of Intercept Radar Signals Using Image Processing The characteristic of low probability of intercept (LPI) radar makes it difficult to intercept with 90. Figure 91. Training of the Neural Network Classifying Images from the Wigner. **03sep_ - Naval Postgraduate School** signal analysis technique for use in digital intercept receivers for the analysis of frequency shift keying (FSK) low probability of intercept (LPI) radar signals is taken. analysis techniques (e.g. Spectrogram, Wigner-Ville distribution (WVD)). **Quantifying the differences in low probability of intercept radar** **A novel low probability intercept radar altimeter based on FMCW** Intercept Radar Signals Using Image Processing. 6. The characteristic of low probability of intercept (LPI) radar makes it difficult to intercept with oped WignerVille (WD) distribution method, the quadrature mirror filter bank (QMFB). **ANALYSIS OF LOW PROBABILITY OF INTERCEPT (LPI) RADAR** Oct 12, 2016 signals widely used in low probability of intercept (LPI) radar LPI radar waveform usually has lower signal power, which makes it WignerVille distribution (WVD) and CWD processing with a high It has higher RSR in the low SNR environments and less training output the probability feature, i.e.. **LPI Radar Waveform Recognition Based on Time-Frequency** Sep 12, 2016 Wigner distribution detection and analysis of FMCW and P-4 polyphase LPI techniques to detect low probability of intercept radar signals Characterization of LPI Waveforms Using Polynomial Phase Signal Modelling. **Analysis of Low Probability of Intercept Radar Signals Using the** commercial use, distribution, and reproduction in any medium, provided the Two different frequency hopping low probability of intercept radar signals towards classical time-frequency analysis techniques for the low probability of intercept (LPI) radar that uses . functions such as the Wigner-Ville Distribution (WVD). **Recognition of polyphase coded signals using time-frequency rate** signal analysis technique for use in digital intercept receivers for the analysis of frequency shift keying (FSK) low probability of intercept (LPI) radar signals is taken. analysis techniques (e.g. Spectrogram, Wigner-Ville distribution (WVD)). **A Novel Approach for the Characterization of FSK Low Probability of Intercept (LPI) Radar Signals Using** Analysis of low probability of intercept (LPI) radar signals using cyclostationary processing This thesis investigates the use of cyclostationary processing to extract the modulation Approved for public release, distribution is unlimited **Detection of low probability of intercept radar signals - Defence** Analysis of Low Probability of Intercept (LPI) Radar Signals Using The Using the Wigner Distribution (WD), this thesis examines eight types of LPI radar. class of radars, Low Probability of Intercept (LPI) radars address analysis of certain LPI radar signals, such as the The Wigner-Ville distribution of the signal. **N / A N / A - Defense Technical Information Center** Oct 12, 2016 signals widely used in low probability of intercept (LPI) radar detection systems. military-like radar identification, threat analysis, electronic warfare (EW), . (using skeleton extraction instead of WignerVille distribution, data **Analysis of Low Probability of Intercept (LPI) Radar Signals Using** Many users of radar today are specifying a Low Probability of Intercept (LPI) as an intercept receivers have a difficult time using only

power spectral analysis and Wigner distribution, (c) quadrature mirror filter banks and (d) cyclostationary **Detection and Parameter Extraction of Low Probability of Intercept** low probability of intercept radar signals (4-component and 8- component) . leading to inaccurate LPI radar signal detection and Wigner-Ville distribution followed by the Radon using the Hough transform for the analysis of triangular. **Jen-Yu Gau (Author of Analysis of Low Probability of Intercept (LPI** 2002-09. Analysis of low probability of intercept (LPI) radar signals using the Wigner Distribution. Gau, Jen-Yu. Monterey California. Naval Postgraduate School. **Analysis of low probability of intercept (LPI) radar signals using the** Low Probability of Intercept (LPI) radars have the property of low power, wide An LPI Radar signal modulated using seven bit Barker sequence is shown in Fig 1. . The Wigner Ville Distribution (WVD) is a two-dimension function describing **LPI Radar Waveform Recognition Based on Time-Frequency - MDPI** Chapter. 12. Wigner-Ville. Distribution. Analysis. of. LPI. Radar. Waveforms to identify the LPI modulation types and also extract the LPI signals parametric data. By using the Wigner analysis tools, an intercept receiver can come close to **Analysis of low probability of intercept (LPI) radar signals using the** D. Curtis Schleher. Approved for public release distribution is unlimited Low Probability of. Intercept Radar Signals Using Image Processing The characteristic of low probability of intercept (LPI) radar makes it difficult to intercept with 90. Figure 91. Training of the Neural Network Classifying Images from the Wigner. **Intercept receiver signal processing techniques to detect low RADAR SIGNALS USING THE WIGNER DISTRIBUTION** by SUBJECT TERMS Low Probability of Intercept (LPI), Wigner Distribution (WD), Binary Phase. **thesis - Defense Technical Information Center** LPI (low probability of intercept) radars occupy wide frequency bands and Wigner-Ville distribution (WVD) and cyclostationary signal analysis method are **PWVD resolution considerations for LFMCW signal detection by** These signals are known as Low Probability of Intercept (LPI) signals. .. 1 shows the time-frequency analysis using the Wigner-Ville distribution of the received.

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