

Coherent Seeker Guided Antiship Missile Performance Ysis

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COHERENT SEEKER GUIDED ANTISHIP MISSILE PERFORMANCE ANALYSIS BACKGROUND This report documents an investigation of several aspects of coherent processing as it relates to the radar seeker of an antiship missile (ASM). Coherent properties of interest relate to both interpulse (Doppler) and intrapulse (range compression) capabilities.

Coherent Seeker Guided Antiship Missile Performance Analysis

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The performance capability of an antiship missiles radar guidance system can be rated by the ratio of the processed signal level to the interference or noise level. In this report, the general performance capability is evaluated for missiles guided via noncoherent radar and for missiles guided via coherent radar. The contribution of several coherent aspects are compared including interpulse ...

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missiles guided via noncoherent radar and for missiles guided via coherent radar The Page 2/11 Download Ebook Coherent Seeker Guided Antiship Sep 25 2020 Coherent-Seeker-Guided-Antiship-Missile-Performance-Analysis 2/3 PDF Drive - Search and download PDF files for free.

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Aug 27 2020 Coherent-Seeker-Guided-Antiship-Missile-Performance-Analysis 2/3 PDF Drive - Search and download PDF files for free. The anti-ship missile (ASM) has been a serious threat to naval platforms since the Second World War and has been ASMs may use a single or multi-

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Where To Download Coherent Seeker Guided Antiship Missile Performance Analysis Long Range Anti-Ship Missile (LRASM) Despite their different methods of delivery, antiship missiles formed a coherent class largely because they were designed to penetrate the heavy defenses of warships.

The performance capability of an antiship missile's radar guidance system can be rated by the ratio of the processed signal level to the interference or noise level. In this report, the general performance capability is evaluated for missiles guided via noncoherent radar and for missiles guided via coherent radar. The contribution of several coherent aspects are compared including interpulse, intrapulse, and beam sharpening. Potential improvement of as much as 15 to 20 dB are indicated. A brief derivation of a useful representation of the processed signals is presented that describes the potential usefulness of Space-Time Adaptive Processing.

Frequency Modulated Continuous Wave (FMCW) radars are a fast expanding area in radar technology due to their stealth features, extremely high resolutions, and relatively clutter free displays. This groundbreaking resource offers engineers expert guidance in designing narrowband FMCW radars for surveillance, navigation, and missile seeking. It also provides professionals with a thorough understanding of underpinnings of this burgeoning technology. Moreover, readers find detailed coverage of the RF components that form the basis of radar construction. Featuring clear examples, the book presents critical discussions on key applications. Practitioners learn how to use time-saving MATLAB® and SystemVue design software to help them with their challenging projects in the field. Additionally, this authoritative reference shows engineers how to analyze FMCW radars of various types, including missile seekers and missile altimeters. Packed with over 600 equations, the book presents discussions on key radar algorithms and their implementation, as well as designing modern radar to meet given operational requirements.

Written by a prominent expert in the field, this authoritative new resource presents anti-ship missile (ASM) electronic protection (EP) techniques designed to enhance accurate target classification currently being developed by personnel from the People ' s Republic of China and other nations. This book provides a comprehensive introduction to modern electronic warfare (EW) in an era of information warfare (IW). It explores the capabilities of coherent radar and digital signal processing to rapidly and accurately classify targets. Both naval and air electronic EW are covered in this resource. This book gives insight into modern EW as an information battle and includes guidance on properly testing the effectiveness of electronic attack (EA) systems. Pulsed Doppler radar basics including, electromagnetic pulse, dynamic range, gain control, and Doppler effects are presented. A summary of the ASM sensor and EA model is provided and readers find coverage of the radar range equation, burn through, and the range Doppler map and imaging. Special topic-extended target classifications including, false, decoys, and chaff are explained. Special topic ASM EP waveforms and multiple receiver EP are also covered. This book explores features of algorithms to optimize combining multiple parameters and systems. Moreover, it explains several algorithms proposed by PRC personnel to implement optimal two-channel processing that mitigates cover noise EA.

This revised and expanded second edition brings you to the cutting edge with new chapters on LPI radar design, including over-the-horizon radar, random noise radar, and netted LPI radar. You also discover critical LPI detection techniques, parameter extraction signal processing techniques, and anti-radiation missile design strategies to counter LPI radar.

A comprehensive and accessible introduction to electronic warfare and defense systems. Description of electronic defense systems and weapons systems. Explains vulnerable parts of radar and the limitations of weapons systems. Details effectiveness of defense systems.

China ' s anti-ship ballistic missile (ASBM), the DF-21D, has reached the equivalent of Initial Operational Capability. Although it probably has been deployed in small numbers, additional challenges and tests remain. This study examines the ASBM ' s capability and history, showing how the DF-21D meets multiple priorities in Chinese defense modernization and in the national security bureaucracy, as well its implications for the United States. The ASBM ' s physical threat to U.S. Navy ships will be determined by the development of associated systems and organizations, which currently limit data fusion and coordination in the complex task of identifying a U.S. aircraft carrier in the open ocean. Still, the ASBM poses a direct threat to the foundations of U.S. power project in Asia and will undermine the U.S. position, unless efforts to counter its political-military effects are taken.

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