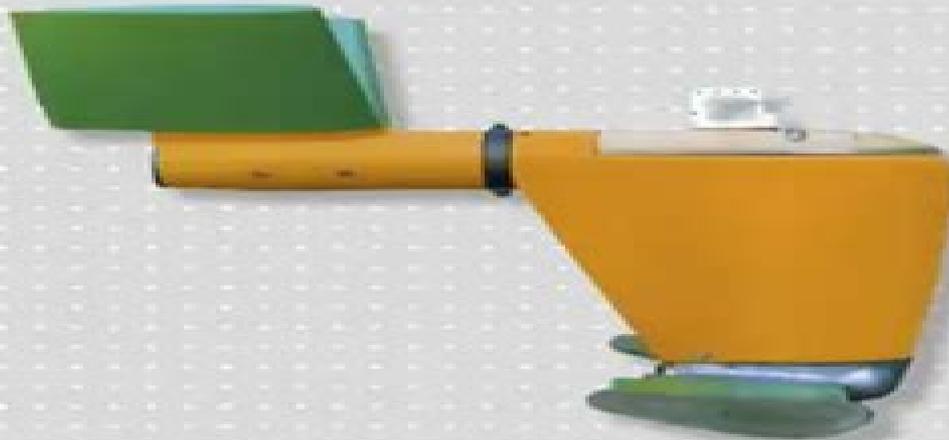




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## **Active Towed Array Sonar Actas Outstanding Over The:**

**Jane's International Defense Review** ,2008-07    **Jane's Navy International** ,2004    **Electrical & Electronics Abstracts** ,1989    **Science Abstracts** ,1992    *Surveillance towed array sensor system low frequency active sonar* ,2001  
*A Tactical Application of Coastal Acoustic Tomography* Jeroen Franken,1994 The objective of this study is to investigate the utility of acoustic tomography for performance assessment of a generic low frequency active sonar system The performance of the sonar is simulated using tomography derived sound speed data versus a range independent ocean model The ocean environment used in the simulation is 159 tomographic snapshots of the Barents Sea Polar Front taken every 5 minutes in August 1992 The modeled sonar system consists of a 1000 Hz source with a source level of 205.5 dB and a towed horizontal array of hydrophones The system is derived from unclassified parameters of ATAS Active Towed Array Sonar built by Thomson Sintra ASM and British Aerospace SEMA and the experimental ALF sonar designed by FEL TNO the Netherlands and built by Thomson Sintra ASM The tomographic images over a range of 26 km provide a realistic ocean in which system performance is assessed This study used a broadband coupled normal mode propagation model and assumed a noise limited condition The probability of detection calculated as a function of time for 13 hours is compared with that estimated using a range and time independent assumption The utility of coastal acoustic tomography for tactical applications is discussed AN Sonar and Underwater Sound Albert W. Cox,1974    **Towed Array Sonar** ,1986    Human Limitations in Towed Array Sonar Recognition ,1983    Left-right Ambiguity Resolution of a Towed Array Sonar Katerina Kaouri,2000    *Procedures for Calculating Approximate Probability of Detection for Towed Array Area ASW Area Search* United States. Department of the Navy. Surface Warfare Development Group,1989    **Unambiguous Triplet Array Beamforming and Calibration Algorithms to Facilitate an Environmentally Adaptive Active Sonar Concept** ,2006 Cardioid or triplet towed arrays are utilized in sonar applications to resolve left right ambiguity by placing a null on the ambiguous direction This leaves an uncalibrated residual signal on the opposite direction from which the desired signal is arriving Here the mechanism of cardioid beamforming is presented and analytical expressions for the calibration of continuous wave CW and linear frequency modulated LFM signals are derived The validity of these expressions is verified using simulated and real data The same data sets are also used for comparing the performance between the standard beamformer and a modified version designed to suppress endfire singularities The effect of correlated vs uncorrelated intratriplet noise is assessed using a simulation scenario with a point target    *Channel Amplitude Variability Characteristics of the Cycle 3 Multi-Aperture Networked Towed Array (MANTArray)*. ,2004 The Towed Integrated Active Passive Sonar TIAPS is a technology demonstration project designed to explore the potential development of a next generation sonar system The Multi aperture Networked Towed Array MANTArray is the passive receive array for the TIAPS project This report begins with background on the array configuration and the effect of amplitude fluctuations on beamforming It then presents results of sea trials that observed variations in gain

noise level with time between array channels The origin of a high amplitude infrasonic wave propagating along the array is investigated through direct manipulation of one of the array modules The results of the investigation are used to explain the variability found in the data collected during the sea trials Acoustic Rapid COTS Insertion Michael Boudreau,2006 The following article is taken as an excerpt from the proceedings of the annual Acquisition Research Program This annual event showcases the research projects funded through the Acquisition Research Program at the Graduate School of Business and Public Policy at the Naval Postgraduate School Featuring keynote speakers plenary panels multiple panel sessions a student research poster show and social events the Annual Acquisition Research Symposium offers a candid environment where high ranking Department of Defense DoD officials industry officials accomplished faculty and military students are encouraged to collaborate on finding applicable solutions to the challenges facing acquisition policies and processes within the DoD today By jointly and publicly questioning the norms of industry and academia the resulting research benefits from myriad perspectives and collaborations which can identify better solutions and practices in acquisition contract financial logistics and program management For further information regarding the Acquisition Research Program electronic copies of additional research or to learn more about becoming a sponsor please visit our program website at [www.acquisitionresearch.org](http://www.acquisitionresearch.org) For further information on or to register for the next Acquisition Research Symposium during the third week of May please visit our conference website at [www.researchsymposium.org](http://www.researchsymposium.org)

**Analysis of Active Sonar Array Data Using High Resolution Methods** ,2000 Towed Array Performance in the Littoral Waters of Northern Australia James A. M. Crouch,Naval Postgraduate School (U.S.),1997-06-01 The goal of this research was to investigate the performance of low frequency passive sonars in the Arafura Sea Sound speed profiles representative of the wet and dry monsoon seasons and geoacoustic data were inputted into a finite element primitive equation transmission loss model to model the expected propagation at three frequencies 10 50 and 300 Hz Initial detection ranges for several source receiver depth combinations and geoacoustic areas deep shallow water were compared and evaluated Results demonstrate that low frequency 10 Hz detection ranges suffer due to cutoff frequency problems and to surface decoupling loss Propagation in deep water has the added disadvantage of excessive loss of signal power due to spherical spreading considerations Conversely higher frequencies 300 Hz provided extended detection ranges in shallow water due to trapping of energy within the entire 50 m to 100 m water column Additionally investigation into advantages to be gained through advanced signal processing techniques shows that improvements of the order of 10 to 15 dB of detection gain are possible through the utilization of inverse beamforming

**Array Shape Tracking Using Active Sonar Reverberation** ,2003 The objective of this project is to estimate and track the shape of a towed distorted linear array using reverberation from active sonar pings as a distributed source of opportunity

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jan 31 2011 ham the astrochimp as he came to be known is named for the holloman aerospace medical center the lab located on new mexico s holloman air force base that prepared him for his historic flight

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