

DEFENSE TECHNICAL INFORMATION CENTER

# 2012 DTIC Conference

*Connecting Lab Research with the Warfighter*

March 27-28, 2012

## DTIC Discovery Tools

28 March 2012

**Moderator: Kapin L. Ferguson**



# DTIC Online Public, Classified, and Access Controlled

**Mr. Andrew Pedrick, DTIC**  
GSA and DTIC Online Teams, DTIC



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- DTIC Online Public <http://www.dtic.mil>
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- New Search Design

Search

All Collections



Information Assurance Weaknesses



Advanced Search  
Search Tips

What's included in this search?

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- **All Collections** - Search all of the collections listed below at once.
- **Technical Reports** - Scientific and technical (S&T) reports conveying results of Defense-sponsored research, development, test and evaluation (RDT&E) efforts on a wide range of topics. Collection includes both citations and many full-text, downloadable documents from mid-1900s to present.
- **AULIMP** - Air University Library Index to Military Periodicals. Subject index to significant articles, news items, and editorials from military and aeronautical periodicals, with citations from 1988 to present.
- **BRD** - Biomedical Research Database. Developed from federally funded research, testing and training programs; updated annually.
- **Congressional Budget Data (CBD)** - Congressional Budget Data Provides detailed search and analysis capabilities across the military departments and agencies for Research Development Test and Evaluation (RDT&E) data. DTIC's PDF and Excel spreadsheet versions of Congressional Budget reports are available shortly after postings on Thomas (Library of Congress) Web site.
- **DoD Labs and S&T** - Allows users to query the DoD laboratory community or other sites identified as related to S & T organizations.
- **DTIC Online** - This search queries the DTIC Online Public Web site.
- **NDIA** - National Defense Industrial Association Conference Proceedings. Collection of presentations from NDIA-sponsored conferences.
- **RDDS** - R-2s furnish narrative information on Research, Development, Test and Evaluation (RDT&E) programs and Program Elements (PE Numbers) within the Department of Defense (DoD).
- **SCAMPI** - Staff College Automated Military Periodical Index. Database of articles on military and naval science, operational warfare, joint planning, national and international politics, and other areas researched by Joint Forces Staff College from 1985 to present.
- **WHS** - Washington Headquarters Service. Department of Defense (DoD) Issuances (current and cancelled), Joint

**Customer Support**

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**Quick Links**

- Announcements
- DTIC Boot Camp
- DTIC Online Navigation Guide
- DTIC ToGo
- In the News (in DoDTechipedia)
- Technical Reports

inform potential technology development partners of new capabilities that support Army cloud computing development efforts and hear what potential partners could contribute to those efforts.

Full Story

**Coming Soon!**

The new Web site Defense Innovation Marketplace





INSPECTOR GENERAL  
DEPARTMENT OF DEFENSE  
400 ARMY AVE  
ARLINGTON, VIRGINIA 22204-5000

Text Version

September 30, 2011

MEMORANDUM FOR ASSISTANT SECRETARY OF DEFENSE FOR NETWORKS  
AND INFORMATION INTEGRATION/DOD CHIEF  
INFORMATION OFFICER  
ASSISTANT SECRETARY OF THE AIR FORCE  
(FINANCIAL MANAGEMENT AND COMPTROLLER)  
NAVAL INSPECTOR GENERAL  
AUDITOR GENERAL, DEPARTMENT OF THE ARMY

SUBJECT: Summary of Information Assurance Weaknesses as Reported by Audit  
Reports Issued From August 1, 2010, Through July 31, 2011

Accession Number : ADA550574

Title : Summary of Information Assurance Weaknesses as Reported by Audit  
Reports Issued From August 1, 2010, Through July 31, 2011

Descriptive Note : Congressional rept

Corporate Author : INSPECTOR GENERAL DEPT OF DEFENSE ARLINGTON VA

Handle / proxy Url : <http://handle.dtic.mil/100.2/ADA550574>

Report Date : 30 Sep 2011

Pagination or Media Count : 38

Abstract : The purpose of this report is to provide a reference document that identifies all audit reports that contained findings outlining information assurance weaknesses in DoD. The overall objective was to summarize the information assurance (IA) weaknesses identified in reports and testimonies issued by the DoD audit community and the Government Accountability Office (GAO) between August 1, 2010, and July 31, 2011. This summary report supports the Department of Defense Office of Inspector General's (DoD OIG) response to the requirements of Public Law 107-347, Title III, Federal Information Security Management Act (FISMA), section 3545, December 17, 2002. See Appendix A for a discussion of the scope and methodology and Appendix B for prior coverage related to the objective.

Descriptors : \*AUDITING, \*INFORMATION ASSURANCE, \*LAW ENFORCEMENT, COMMUNITIES, METHODOLOGY, POLICIES, REPORTS, REQUIREMENTS, SECURITY

Subject Categories : Administration and Management  
Sociology and Law

Distribution Statement : APPROVED FOR PUBLIC RELEASE

Cached

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Search Technical Reports Information Assurance Weaknesses

MultiSearch Registration Search Technical Reports Informa

Search Results 1 - 10 of about 1910 for Information Assurance Weaknesses

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[Summary of Information Assurance Weaknesses as Reported by Audit Reports Issued from August 1, 2010, through July 31, 2011.](#)

... Title : Summary of Information Assurance Weaknesses as Reported by Audit Reports Issued from August 1, 2010, through July 31, 2011. ...

[www.dtic.mil/docs/citations/ADA550574](http://www.dtic.mil/docs/citations/ADA550574) - 21k - 2011-09-30 - [Cached](#) - [PDF](#)

[PDF] [Summary of Information Assurance Weaknesses as Reported by Audit Reports Issued from August 1, 2010, through July 31, 2011.](#)

... F2008-0006-FB4000, "Mission Assurance Category YI ... the security of information systems. ... of security features and assurances through con

[www.dtic.mil/dtic/tr/fulltext/u2/a550574.pdf](http://www.dtic.mil/dtic/tr/fulltext/u2/a550574.pdf) - 2011-09-30 - [Text Version](#)

[PDF] [DoD Information Assurance Certification and Accreditation Process \(DIAC\) - Senior Information Assurance Officer \(SIAO\).](#)

... on behalf of the chief information officer ... be granted while CAT I weaknesses are p

[www.dtic.mil/dtic/tr/fulltext/u2/a551538.pdf](http://www.dtic.mil/dtic/tr/fulltext/u2/a551538.pdf) - 2007-11-28 - [Text Version](#)

[Summary of Audit Results -- DOD Information Assurance Weaknesses](#)

... an important tool in identifying that weakness. ... the Federal Government weaknesses in information ... and their information assurance eff

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[PDF] [CrossTalk: The Journal of Defense Software Engineering](#)

... of data, oftentimes burying the relevant information. ... for use in s assurance activities [1 ... and manage- ment of software weaknesses

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	<b>without</b> the words	<input type="text"/>		AULIMP	
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<b>Occurrences</b>	Return results where my terms occur		<input type="button" value="anywhere"/>	Congressional Budget Data	
<b>Domain</b>	<input type="button" value="Only ▾"/> return results from the site or domain		<input type="text"/>	DoD Labs S&T	
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## Search

Results 1 - 10 of about 1910 for **Information Assurance Weaknesses**. Search took 0.11 seconds.

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... Title : Summary of **Information Assurance Weaknesses** as Reported by Audit Reports Issued from August 1, 2010, through July 31, 2011. ...

[www.dtic.mil/docs/citations/ADA550574](http://www.dtic.mil/docs/citations/ADA550574) - 21k - 2011-09-30 - [Cached](#) - [\[PDF\]](#)

### [\[PDF\] Summary of Information Assurance Weaknesses as Reported ...](#)

... F2008-0006-FB4000, "Mission **Assurance** Category YI ... the security of DoD **information** systems. ... of security features and **assurances** through control ...

[www.dtic.mil/dtic/tr/fulltext/u2/a550574.pdf](http://www.dtic.mil/dtic/tr/fulltext/u2/a550574.pdf) - 2011-09-30 - [Text Version](#)

### [\[PDF\] DoD Information Assurance Certification and Accreditation ...](#)

... Senior **Information Assurance** Officer (SIAO). ... on behalf of the organization's chief **information** officer ... be granted while CAT I **weaknesses** are present ...

[www.dtic.mil/dtic/tr/fulltext/u2/a551538.pdf](http://www.dtic.mil/dtic/tr/fulltext/u2/a551538.pdf) - 2007-11-28 - [Text Version](#)

### [Summary of Audit Results -- DOD Information Assurance ...](#)

... an important tool in identifying that **weakness**. ... the Federal Government, because **weaknesses** in **information** ... and their **information assurance** efforts. ...

[www.dtic.mil/docs/citations/ADA367629](http://www.dtic.mil/docs/citations/ADA367629) - 21k - 1999-01-22 - [Cached](#) - [\[PDF\]](#)

### [\[PDF\] CrossTalk: The Journal of Defense Software Engineering. ...](#)

... of data, oftentimes burying the relevant **information**. ... for use in software **assurance** activities [1 ... and manage- ment of software **weaknesses** related ...

[www.dtic.mil/dtic/tr/fulltext/u2/a552354.pdf](http://www.dtic.mil/dtic/tr/fulltext/u2/a552354.pdf) - 2010-10-01 - [Text Version](#)

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[information assurance](#)

[quality assurance](#)

[information security](#)

[reasonable assurance](#)

[information systems](#)

[strengths weaknesses](#)

[2s furnish narrative information](#)

[research](#)

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[providing reasonable assurance](#)

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## DTIC Search Tips

This document introduces basic search concepts, and describes advanced techniques that produce more efficient search results. **Search terms are highlighted** in the text version of the document to help you quickly find the most relevant text within documents. When only the citation is available for a document, the search terms will be highlighted in the "cached" citation.

## Getting Started with DTIC Search

- [Advanced Search Tips](#)
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- [Capitalization](#)
- [Common Words](#)
- [Corporate Source Search](#)
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- [Fielded searching using "inmeta" Search Operator](#)
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- [Stemming](#)
- [Thesaurus Search](#)

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#### Provider of DoD Technical Information to Support the Warfighter

The Defense Technical Information Center (DTIC®) serves the DoD community as the largest central resource for DoD and government-funded scientific, technical, engineering, and business related information available today .  
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### Quick Links

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- Employment
- Upcoming Events
- Training

### DoD R&E Success Story



Soldiers prepare to Deploy.

Oklahoma National Guard Soldiers and contract technicians are an RQ-7B Shadow unmanned aircraft system for flight ... testing



Unclassified for training purposes

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**STUDENT PAPER COMPETITION**  
for  
**2011 DTIC Conference**  
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The banner features a blue background with a collage of images on the left, including the Department of Defense seal, a soldier in uniform, and a person in a white lab coat. The text "DTIC Online Classified" is prominently displayed in white on the right side of the banner.

# DTIC Online Classified

- No login until you view a citation or PDF
- Combines DTIC Technical Reports and IAC Technical Reports (TEMS)
- Includes public, limited, and classified Technical Reports
- Searches citation and full text
- One hit per document
- Can limit by Information Analysis Center
- Has limited field searching similar to DTIC Online Public

Tuesday, 06-

- DoD Sites & Collections
- DoD Sites & Collections
- Technical Reports
- Research in Progress
- DTIC Web Site

**URED**



Unified Research & Engineering Database (URED) This new tool will collect the data formerly reported in Research Summaries, the R&E Database, and the In-House S&T Activities Report. Enter your data online in URED.

**Welcome to DTIC**

The Defense Technical Information Center (DTIC) is the hub of DoD Scientific and Technical information interchanges, empowering innovators with greater efficiency, effectiveness, and agility by accelerating the delivery of Warfighting technology. DTIC is a DoD Field Activity, reporting to the Assistant Secretary of Defense for Research & Engineering (ASD(R&E)).

**IACs**



Information Analysis Centers (IACs) are research and analysis organizations established by the DoD to support researchers, scientists, engineers, and program managers with expertise in all areas of defense research and engineering.

**DoD R&E Success Story**

**Cloud Computing to Integrate with Current Army System**



an Industrial Day to inform potential of new capabilities that support Army rts and hear what potential partners

**Resources**

- Acquisition
- Collaborative Tools
- General Interest
- Resource Management
- Science & Technology

**Customer Feedback**



**DTIC CARES Feedback Form**

**Has the most content:**

- all DTIC collections
- 4.5 million records
- public, limited, and sanitized classified

**Has the most functionality:**

- true advanced search
- full Boolean search language & truncation
- save & export records
- save & schedule searches
- request digitization

aturday, 10-Mar-12 21:02:42 EST

Searched for: information assurance weaknesses | Report Date: All dates  Save This Search

Results 1 - 10 of 25,286 from 4,450,386

< [1] 2 3 4 5 6 7 ... > »

1. View Citation | View Full Text PDF - 902 KB | Add to Bibliography

**Title:** Security Analysis of Session Initiation Protocol  
**Author:** Dobson, Lucas E  
**Corporate Author:** NAVAL POSTGRADUATE SCHOOL MONTEREY CA  
**Report Date:** Jun-2010  
**Pages:** 99 page(s)  
**Accession Number:** ADA524542  
**Distribution Code:** A - 01 - APPROVED FOR PUBLIC RELEASE  
**Report Classification:** U - Unclassified  
**Collection:** Technical Reports (pub-tr)

2. View Citation | View Full Text PDF - 200 KB | Add to Bibliography

**Title:** Russia and NATO Enlargement: The Assurances in 1990 and Their Implications  
**Author:** Heller, Adam R  
**Corporate Author:** NAVAL POSTGRADUATE SCHOOL MONTEREY CA  
**Report Date:** Jun-2009  
**Pages:** 69 page(s)  
**Accession Number:** ADA501522  
**Distribution Code:** A - 01 - APPROVED FOR PUBLIC RELEASE  
**Report Classification:** U - Unclassified  
**Collection:** Technical Reports (pub-tr)

3. View Citation | View Full Text PDF - 1 MB | Add to Bibliography

**Title:** Defense Finance and Accounting Service Kansas City Federal Manager's Financial Integrity Act, Federal Financial Management Improvement Act, and Federal Information Security Management Act Reporting of FY 2005  
**Author:** Granetto, Paul J Marsh, Patricia A Blair, Edward A Ball, Cecelia M Adams, Michael Smythe, Beverly Moore, Denny Lane Hart, Erin  
**Corporate Author:** INSPECTOR GENERAL DEPT OF DEFENSE ARLINGTON VA  
**Report Date:** 19-Feb-2008  
**Pages:** 43 page(s)  
**Accession Number:** ADA477031  
**Distribution Code:** A - 01 - APPROVED FOR PUBLIC RELEASE  
**Report Classification:** U - Unclassified  
**Collection:** Technical Reports (pub-tr)

4. View Citation | View Full Text PDF - 7 MB | Add to Bibliography

**Title:** Department of Defense Agency Financial Report. Fiscal Year 2007  
**Author:**

Source Name	Results	Totals	Citations on Page
Air University	0	154,667	
Library Index to Military Periodicals	0	85,878	
Corporate Source	0	16,198	
DoD Biomedical Research Database	0	287	
DoD Congressional Budget Data	22	93,023	
DoD Labs	193	1,544	
DoD Science & Technology	56	5,305	
DoDTechpedia	25	836	
DSTP	12	770	
DTIC Online	24	8	
DTIC Online AC	0	17,117	
DTIC Thesaurus	0	39,631	
EGov	10	4,835	
GTKB	0	930	
In House S&T Activities	42	39,440	
JCS & Combatant Commands	28	694	
Militarily Critical Technologies List (MCTL) Limited	3	7,620	
National Defense Industrial Association	68	201	
Rapid Reaction Technology Office	0	9,521	
Research Development Descriptive Summaries	49	321,538	
RS	28	115	
S&T Success Stories	0	136,080	
Staff College Automated Military Periodicals Index	0	2,218,849	
Technical Reports	14,893	1,277,476	
tems	9,799	12,928	
Unified Research & Engineering Database (URED)	11	4,895	
Washington Headquarters Services	23		

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**Add a search field:**

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- Budget Activity
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- Journal
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- Organizations
- Performing Individual
- Performing Organization
- Performing Organization Code
- Responsible Organization
- Subjects**

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- Citations and Full Text**
- Citations Only
- 
- Relevance**
- Oldest First
- Newest First
- Alphabetical - A first
- Alphabetical - Z first

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**Dates** [+](#)

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**Categories** [-](#)

Selected  expand all  collapse all

- DoD Sites & Collections:** [select/de-select all](#)
  - Services and Agencies**
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  - Technical Reports**
  - Search Tools**
  - Journal Articles & Conference Proceedings**
  - Research in Progress**
  - Budget and Planning Information**

## More Search Options

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### Categories

Select Categories: **ALL** / **NONE** [expand all](#) [collapse all](#)

- DoD Sites & Collections: select/de-select all**
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  - DoD Wide Science & Technology Web Sites**
  - DoDTechipedia**
  - Technical Reports**

## Advanced Search

Report Date:

All dates ?

Add a date field:

Creation Date  
 End Date of Effort  
 Start Date of Effort  
 Update Date

All Distributions

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Select Categories: ALL / NONE expand all collapse all

- DoD Sites & Collections: select/de-select
  - Services and Agencies
  - DoD Wide Science & Technology Web
  - DoDTechpedia
  - Technical Reports
  - Search Tools
  - Journal Articles & Conference Proceedings
  - Research in Progress
  - Budget and Planning Information
  - Standards, Directives, Guidance

Select Categories: ALL / NONE expand all collapse all

## Select Libraries: X

This option limits your search to TEMS records from Information Analysis Centers.

[Select All / Unselect All](#)

- Advanced Materials Manufacturing and Testing Information Analysis Center (AMMTIAC)
- Chemical, Biological, Radiological & Nuclear Defense Information Analysis Center (CBRNIAC)
- Chemical Propulsion Information Analysis Center (CPIAC)
- Data and Analysis Center for Software (DACS)
- Directed Energy Engineering and Analysis Center (DE2AC)
- Human Systems Integration Information Analysis Center (HSIAC)
- Information Assurance Technology Analysis Center (IATAC)
- Modeling and Simulation Information Analysis Center (MSIAC)
- Reliability Information Analysis Center (RIAC)
- Military Sensing Information Analysis Center (SENSIAC)
- Survivability and Vulnerability Information Analysis Center (SURVIAC)
- Weapon Systems Technology Information Analysis Center (WSTIAC)

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## Report Date:

All dates 

## Add a date field:

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All Distributions

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Limit By Information Analysis Center: Add

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    - Service Organizations**
      - JCS & Combatant Commands
  - DoD Wide Science & Technology Web Sites**
    - DoD Labs
    - Other DoD
  - DTIC Web Site**
    - DTIC Online (Public)
    - DTIC Online AC
- DoDTechipedia**
  - DoDTechipedia 
- Technical Reports**
  - Technical Reports 
  - TEMS - Information Analysis Center (IAC) documents 
- Search Tools**
  - Corporate Source 
  - DTIC Thesaurus 

**DoDTechipedia**

- DoDTechipedia **i**

**Technical Reports**

- Technical Reports **i**
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**Search Tools**

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**Journal Articles & Conference Proceedings**

- The Air University Library's Index to Military Periodicals (AULIMP) **i**
- Defense Energy Security **i**
- National Defense Industrial Association (NDIA) Conference Proceedings **i**
- Staff College Automated Military Periodicals Index (SCAMPI) **i**

**Research in Progress**

- Biomedical Research Database (BRD) **i**
- Global Technology Knowledge Base (GTKB) **i**
- Independent Research & Development (IRD) **i**
- Rapid Reaction Technology Office (RRTO) **i**
- S&T Success Stories **i**

**R & E Databases**

- Egov/R&E Database (2006 - 2009) **i**
- Research Summaries (1960 - Sep 2011) **i**
- Unified Research & Engineering Database (Oct 2011 - present) **i**

**Budget and Planning Information**

- Defense Science & Technology Plan (DSTP) (comprised of JWSTP, DTAP, DTOS and BRP) **i**
- DoD Congressional Budget Data **i**
- In house S&T Activities **i**
- Research & Development Descriptive Summaries (RDDS) **i**



# Additional DOAC Topics

- Many different kinds of content with different purposes are mixed together in search results
- We have obscure resource names (Research & Engineering, Independent Research & Development, TEMS.)
- All content is searched, but not integrated. For instance, there is no connection between Research Summaries and budget information.
- Requires some expertise to take full advantage of the functionality.
- There is a disconnect between the Advanced Search page and the results page.



# At the same time....

- Moving to a new search engine
- DoDTechSpace was on the horizon
- Considering a new integrated design for all DTIC products



# Design Goals

- Answer the most common user stories
- Answer the high profile user stories
- Simple, easy to use, intuitive for both new and old users
- Visually appealing
- One site, one search box, all collections
- Integrate with DTIC products
- Integrate with other design efforts



# Search User Stories: I need to find...

- this specific report
- some relevant technical info on this topic
- all technical info on this topic
- current status of this research area

- status of funding for a program
- what the labs or industry are doing
- which lab focuses on a topic
- what technology is researched in a geographic area
- what the COCOMs need

- a DTIC service
- a tool or a dataset
- a directive
- a security classification guide

- experts
- a community page
- a discussion
- an event

- I need to browse, explore, and learn
- I need to save my preferences, my searches, or individual documents

tanks

Search

We're reorganizing our content and implementing a new search engine to make searching faster and easier for both new and experienced searchers. [Click here](#) to let us know what you think!



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**Summary**

**Research**

**Budget**

**Expert Network**

**Tools & Services**

**My Research (0)**

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« < [1] 2 3 4 5 6 7 ... > »

tanks inmeta:dc~a

Showing 1 - 10 out of 87500 results. Refine your search

**Author:**

- Katzman, Kenneth (160+)
- O'Rourke, Ronald (100+)
- Moore, Gary (60+)
- Bolkcom, Christopher (35+)
- Kan, Shirley A. (33+)
- Feickert, Andrew (32+)
- Grimmett, Richard F. (27+)
- Best, Jr, Richard A. (26+)
- Binder, Michael J.; Holcomb, Franklin H.; Taylor, William R. (25+)
- Sharp, Jeremy M. (25+)

**Subjects:**

- THESES (3000+)
- SYMPOSIA (2000+)
- DEPARTMENT OF DEFENSE (1200+)
- FOREIGN REPORTS (1200+)
- UNITED STATES (1200+)
- MILITARY OPERATIONS (1100+)
- POLICIES (1100+)
- REPRINTS (1000+)
- Strategy and Tactics (1000+)
- WARFARE (1000+)

**Organization:**

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TANK CHILLDOWN ANALYSIS AND VERIFICATION WITH A FLIGHTWEIGHT, 175 (CUBIC FT) TANK UNDER NORMAL GRAVITY WITH LIQUID HYDROGEN.  
Saiyed, N. H.

In a typical no-vent fill (NVF) process, the receiver tank wall is cooled to a target temperature before filling proceeds. One way to cool the tank wall is to use the charge-hold-vent (CHV) approach. The three phases of the CHV process, charge, hold and vent, influence the tank chilldown in very different ways. The enthalpy inflow and the evaporation of the liquid dominate the charge phase. Direct tank wall to vapor heat transfer, free convection on Earth and mostly conduction in low-g, determi...

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**Accession Number:** CPIAC-1993-1007

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**Personal Author(s):** Saiyed, N. H.

**Publisher:** NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LEWIS RESEARCH CENTE R

**Date of Publication:** 01 Feb 1992

**Abstract:** In a typical no-vent fill (NVF) process, the receiver tank wall is cooled to a target temperature before filling proceeds. One way to cool the tank wall is to use the charge-hold-vent (CHV) approach. The three phases of the CHV process, charge, hold and vent, influence the tank chilldown in very different ways. The enthalpy inflow and the evaporation of the liquid dominate the charge phase. Direct tank wall to vapor heat transfer, free convection on Earth and mostly conduction in low-g, determines the hold phase. In the vent phase, the enthalpy outflow and forced convection are the dominant factors. An analysis that encompasses all phases of the CHV approach was developed. The resulting equations are easily programmable. Transient modeling of the CHV process was achieved by evaluating the equations at discrete time intervals. The analysis was compared with data from a CHV demonstration. The trends in the calculated profiles for the tank wall temperature, vapor temperature, and tank pressure matched those from the data; however, the calculated profiles were offset from the data. The demonstration did not have sufficient information for properly modeling the parameters that influence the heat transfer processes to reduce the offset. Further research was recommended concerning heat transfer during the charge and vent phases to improve the analysis. (Author)

**Category:** Meeting Paper; CPIA-PUB-580-VOL-1

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The Effects of Tank Crew Turbulence on Tank Gunnery Performance

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date Preparation	2005-02-01 A - 01 - APPROVED FOR PUBLIC RELEASE <input checked="" style="float:right" type="button" value="+"/>
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Showing 1 - 10 out of 6630 results. Refine your search

Subject:

Distribution Code:

- Author:**
- KINO,G. S. (9)
  - KINO,G. S; (9)
  - LANGE,YU. V. (6)
  - LANGE,YU. V; (6)
  - NEPOMUCENO,L. X. (5)
  - NEPOMUCENO,L. X; (5)
  - VARY,ALEX (5)
  - WEGLEIN,R. D. (5)
  - WEGLEIN,R. D; (5)
  - WILLIAMS,R.E. (5)

- Subjects:**
- ACOUSTICS (1505)
  - ULTRASONICS (499)
  - ULTRASONIC TESTING (369)
  - TRANSDUCERS (256)
  - FOREIGN TECHNOLOGY (238)
  - UNDERWATER ACOUSTICS (231)
  - PROPAGATION (220)
  - MEASUREMENT (216)
  - THEORY (212)
  - DETECTION (203)

**Summary** **Research** **Budget** **Expert Network** **Tools & Services** **My Research (10)**

« < [1] 2 3 4 5 6 7 ... > »

1.		Science for Materials in the Frontier of Centuries: Advantages and Challenges, Volume 2. UKRAINIAN ACADEMY OF SCIENCES KIEV INST OF MATERIALS SCIENCE PROBLEMS	2002-11-01 A - APPROVED FOR PUBLIC RELEASE 
⇓			
2.		Acoustic Filtration, Fractionation, and Mixing in Microfluidic Systems. Wang, A. Fisher, K. LAWRENCE LIVERMORE NATIONAL LAB CA	2002-04-02 A - APPROVED FOR PUBLIC RELEASE 
⇓			
3.		TARGET RESOLUTION IN DISTRIBUTED SENSOR SYSTEMS, BLATT, STEPHEN R. BAE ADVANCED SYSTEMS AND TECHNOLOGY NASHUA NH	2002-02-01 A - 01 - APPROVED FOR PUBLIC RELEASE 
⇓			
4.		Laser Ultrasonic Measurement of Mechanical Properties of Nanometer-sized Thin Film Structures, Hernandez, C.M. Murray, T.W. Krishnaswamy, S.	2002-01-01 A - 01 - APPROVED FOR PUBLIC RELEASE ; 21 - JOURNAL ARTICLES - CITATION ONLY 
⇓			
5.		Nonlinear Active Wave Modulation Approach for Evaluating Bond Conditions Between Adhesively Bonded FRP Sheet/Concrete Substrate, Wu, Hwai-CHung Warnemuende, Kraig	2002-01-01 A - 01 - APPROVED FOR PUBLIC RELEASE ; 21 - JOURNAL ARTICLES - CITATION ONLY 
⇓			



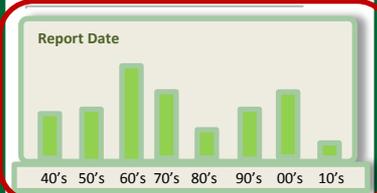
# What about those other tabs?

- Budget Tab - feature the Budget Analysis application
- Tools & Services Tab – show DTIC services search results (Index of Security Classification Guides, DoD Directives, etc.)
- Expert Network Tab – show DoDTechSpace and Aristotle results (people, projects, discussions)
- Summary Tab - Show select results from Research, Budget, and Expert Network
- Research Tab - include Research Summaries, URED, DoDTechipedia, and other select collections

**Summary** **Research** **Budget** **Expert Network** **Tools & Services** **My Research (0)**

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Graphic to represent and filter dates



Show usage  
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Email Authors

Link between reports, project summaries, budget info

**Author:**

- Katzman, Kenneth (160+)
- O'Rourke, Ronald (100+)
- Moore, Gary (60+)
- Bolkcom, Christopher (35+)
- Kan, Shirley A. (33+)
- Feickert, Andrew (32+)
- Grimmett, Richard F. (27+)
- Best, Jr, Richard A. (26+)
- Binder, Michael J.; Holcomb, Franklin H.; Taylor, William R. (25+)
- Sharp, Jeremy M. (25+)

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1.		TANK CHILLDOWN ANALYSIS AND VERIFICATION WITH A FLIGHTWEIGHT, 175 (CUBIC FT) TANK UNDER NORMAL GRAVITY WITH LIQUID HYDROGEN. Saiyed, N. H.		
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5.		The Effects of Tank Crew Turbulence on Tank Gunnery Performance Eaton, Newell K. Neff, Janet F. ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ALEXANDRIA VA	1978-09-01 A - 01 - APPROVED FOR PUBLIC RELEASE ; 23 - DOCUMENT PARTIALLY ILLEGIBLE	172 people viewed this

**Summary** **Research** **Budget** **Expert Network** **Tools & Services** **My Research (0)**

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-  TANK CHILLDOWN ANALYSIS AND VERIFICATION WITH A FLIGHTWEIGHT, 175 (CUBIC FT) TANK UNDER NORMAL GRAVITY WITH LIQUID HYDROGEN.  
Saiyed, N. H. 1992-02-01  
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-  Maintaining Tank and Infantry Integration Training  
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Eaton, Newell K. Neff, Janet F. ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ALEXANDRIA VA 1978-09-01  
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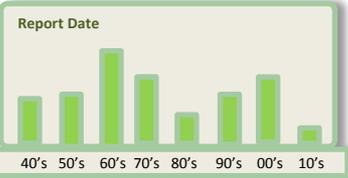
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- Smart filters
- Better export options
- More display options

tanks inmeta:dc~a

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- Katzman, Kenneth (160+)
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  - Moore, Gary (60+)
  - Bolkcom, Christopher (35+)
  - Kan, Shirley A. (33+)
  - Feickert, Andrew (32+)
  - Grimmett, Richard F. (27+)
  - Best, Jr, Richard A. (26+)
  - Binder, Michael J.; Holcomb, Franklin H.; Taylor, William R. (25+)
  - Sharp, Jeremy M. (25+)

- Subjects:**
- THESES (3000+)
  - SYMPOSIA (2000+)
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  - FOREIGN REPORTS (1200+)
  - UNITED STATES (1200+)
  - MILITARY OPERATIONS (1100+)
  - POLICIES (1100+)
  - REPRINTS (1000+)
  - Strategy and Tactics (1000+)
  - WARFARE (1000+)



# When will we see this?

Expect to see a beta sometime this year.

Factors affecting the schedule:

- Changes to the design based on feedback from you
- Integration with DoDTechSpace



# MultiSearch: A Federated Approach

**Ms. Phyllis Levine, DTIC**  
STINET Information Management, DTIC



# MultiSearch Game

Know it all	When	Have it Your Way	Didn't know that
<a href="#"><u>What</u></a>	<a href="#"><u>First Steps</u></a>	<a href="#"><u>Advanced Search</u></a>	<a href="#"><u>Search Tips</u></a>
<a href="#"><u>Where</u></a>	<a href="#"><u>Functionality</u></a>	<a href="#"><u>Get Results</u></a>	<a href="#"><u>Seeing stars</u></a>
		<a href="#"><u>Get Results</u></a>	
<a href="#"><u>How</u></a>	<a href="#"><u>Further Your Findings</u></a>	<a href="#"><u>Clippings</u></a>	<a href="#"><u>Alerts</u></a>
<a href="#"><u>Why</u></a>	<a href="#"><u>Go International</u></a>	<a href="#"><u>Collection Status</u></a>	<a href="#"><u>EndNote-Refworks</u></a>



# What is MultiSearch?

A federated search that allows users to search more than 400 government, commercial and international resources from a single query.

This tool allows you to search across multiple resources, and is even more efficient and easier to use.

All sources are public release information.



# Where?

<http://multisearch.deepwebaccess.com/multisearch>





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AETC Marks 70 Years of Training and Education Excellence

The demand for flying training caused by the United States' entry into World War II after the attack on Pearl Harbor, resulted in the creation of the Air Corps Flying Training Command January 23, 1942.  
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**Coming Soon!**

The new Web site Defense Innovation Marketplace will have the collection tool ready for Industry submission of their Independent Research & Development (IR&D) data.

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# How?

- **Queries over 400 Collections including:**
  - DTIC's Technical Reports
  - Department of Defense databases
  - Department of Energy
  - Environmental Protection Agency
  - Food and Drug Administration
- **Simple and Advanced Searches**
- **Term Bolded** in results
- **Collection Descriptions**
  - Brief description of all the collections available
  - Link directly to collections





# Why?

An ideal tool for saving time and resources for scientists, researchers, engineers, librarians, program managers, students and anyone looking for science, technical, research and engineering information

Great place to start research and find good sources of information





# First Steps

- Simultaneously searches multiple sources
  - Government
  - International
  - Commercial
- No registration required
- Source(s) with hit count displayed with results
- Free



# Functionality



## DTIC MultiSearch

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stretch radar surveillance

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Refine Search

[Advanced Search](#)  
[Create Alert from Search](#)

Search: Full Record: stretch radar surveillance yielded 878 results from 5,195 found.

12 more results found.

[Add](#)

[Collection Status](#) 51 of 51 sources complete

[My Clippings \(0\)](#) [Clear Clippings](#) [Alerts](#) [Print](#) [Email Results](#) [Collection Status](#) [Preferences](#) [Help](#)

Results 1 – 10 of 866

Sort by: Rank

Limit to: All Publishers

« « 1 2 3 4 5 » »

### Clusters

All Results (866)

Topics

- Research (99)
- Technology (88)
- Program (85)

All Results (866)

DoD Pubs (100)

Federal (193)

Articles (1)

Tech Transfer (120)

Tech Reports (456)

Science (108)

1 [Netting and signal processing stretch radar surveillance](#)

★★★★★

Author: A. Farina. Title: Netting and signal processing stretch radar surveillance. Periodical: Signal. Volume: 46 no 4. Pages: 73-81. Date: Dec '91. ...  
[AULIMP \(Air University Library\)](#)

### Wikipedia

[stretch radar surveillance](#)

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# Further Your Findings

## Use Your Findings to Search Further in Other Resources

- Browse results
- Select sources with additional information





# Go International



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### INTERACTIVE MAP

Click on region to zoom in  
on participating countries.



# Advanced Search

All Sources

DTIC - Online Reports Database and Other Resources

[DTIC Technical Reports Collection](#)

*The primary purpose of these reports is to disseminate the results of scientific and technical research. Many of the collections described are not limited solely to scientific and technical information but contain additional information relevant to the DoD mission.*

[SCAMPI \(Joint Forces Staff College\)](#)

*The Joint Forces Staff College Library is a specialized military library, focusing on research in joint and multinational operations, military history and naval science, operational warfare, and operations other than war. Library staff members regularly scan the weekly news magazines, monthly and bimonthly journals such as Military Review, Armed Forces Journal, and quarterly publications, including NATO's Nations and Partners for Peace, RUSI Journal, and the Naval War College Review.*

[AULIMP \(Air University Library\)](#)

*The Air University Library's Index to Military Periodicals is a subject index to significant articles, news items, and editorials from English language military and aeronautical periodicals. The Index contains citations since 1988 and is updated continuously.*

[Research and Development Descriptive Summaries \(RDDS\)](#)

*Research and Development Descriptive Summaries (RDDS) furnish narrative and budgetary information on Research, Development, Test and Evaluation (RDT&E) programs and Program Element (PE) numbers*

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**Full Record:**

**Title:**

**Author:**

**Match:** All

**Date Range:** Pick Year  to Pick Year

All Sources

DTIC - Online Reports Database and Other Resources

[DTIC Technical Reports Collection](#)

*The primary purpose of these reports is to disseminate the results of scientific and technical research. Many of the collections described are not limited solely to scientific and technical information but contain additional information relevant to the DoD mission.*

[SCAMPI \(Joint Forces Staff College\)](#)

*The Joint Forces Staff College Library is a specialized military library, focusing on research in joint and multinational operations, military history and naval science, operational warfare, and operations other than war. Library staff members regularly scan the weekly news magazines, monthly and bimonthly journals such as Military Review, Armed Forces Journal, and quarterly publications, including NATO's Nations and Partners for Peace, RUSI Journal, and the Naval War College Review.*

[AULIMP \(Air University Library\)](#)

*The Air University Library's Index to Military Periodicals is a subject index to significant articles, news items, and editorials from English language military and aeronautical periodicals. The Index contains citations since 1988 and is updated continuously.*

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# Get Results



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1 2 3 4 5

### Clusters

All Results (866)

Topics

Research (99)

Technology (88)

Program (85)

All Results (866)

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Tech Transfer (120)

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Science (108)

1 [Netting and signal processing stretch radar surveillance](#)

★★★★★

Author: A. Farina. Title: Netting and signal processing stretch radar surveillance. Periodical: Signal. Volume: 46 no 4. Pages: 73-81. Date: Dec '91. ...  
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## MultiSearch

Your search: **Full Record: traumatic brain injury** yielded 1,880 top results from at least 3,184,325 found.

Results 1 - 25 of 379

Sort by: Rank  Limit to: All Sources

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### Clusters

- **All Results (379)**
- ▾ Topics
  - ▾ Jump to Main Content (54)
  - ▾ Research (35)
    - ▾ TBI (33)
    - ▾ Technology (28)
    - ▾ Effects (23)
    - **More...**
  - ▾ Authors
    - Bearinger, J. P. (3)
    - Bowen, I. G. (3)
    - Frincke, D. (2)
    - Apling, Richard N. (2)
    - Longwell, B. B. (2)
    - **More...**
  - ▾ Publications
    - Defense Centers of Excellence for Psychological Health & **Traumatic Brain**

- Traumatic Brain Injury**  
... of people in the U.S. sustain head and **brain injuries**. More than half are bad enough that people ... **brain damage** **traumatic brain injuries** (TBIs) are due to motor vehicle accidents. Military ...  
National Library of Medicine  
NIH MedlinePlus
- Traumatic Brain Injury**  
X-Plain **Traumatic Brain Injury** Reference Summary Introduction A sudden violent movement or blow to the head ca...  
This is known as a **traumatic brain injury**, or TBI. About 1.5 million people suffer ...  
NIH MedlinePlus
- Traumatic Brain Injury**  
**Traumatic brain injury** Emily Gilmore , MD and Steven Karceski , MD Next Section WHAT WAS THE STUDY AB...  
completely. Previous Section Next Section About **traumatic brain injury** previous ...  
American Academy of Neurology  
NIH MedlinePlus
- Traumatic Brain Injury**  
... in her. Back to Top What is **Traumatic Brain Injury?** A **traumatic brain injury** (TBI) is an **injury** ... and youth v...  
Definition of "**Traumatic Brain Injury**" ...  
National Dissemination Center for Children with Disabilities  
NIH MedlinePlus
- Traumatic Brain Injury**  
... Organizations Additional resources from MEDLINEplus What is **Traumatic Brain Injury?** **Traumatic brain inju**...  
tbi/index.htm NIH Patient Recruitment for **Traumatic Brain** ...  
NIH MedlinePlus
- Traumatic Brain Injury**  
... partnership with Lifetime Television and Army Wives . **Traumatic Brain Injury** **Traumatic brain injury** (TBI) ...  
recover if a TBI occurs.

Collection Name	Results	Totals
AGRICOLA Articles Database	49	49
AGRICOLA Books Database	5	5
Air University Research Information Management System (AURIMS)	1	1
Army Pubs	0	0
ASSISTdocs	0	0
AULIMP (Air University Library)	20	384
Bosun (Naval Postgraduate School)	0	0
Center for Army Lessons Learned	100	100
Combined Arms Research Library, Digital Library TRADOC, US Army	20	20
CRS Reports	9	9
Defense Supply Center Columbus	0	0
DOD SBIR/STTR Award	0	0
DOD web sites	20	168,234
DOD Wide Science & Technology Websites	100	5,355
DOE Energy Citations Database	83	83
DOE Information Bridge	63	63
DOE R&D Accomplishments Database	0	0
DOE R&D project Summaries Database	32	48
DTIC Corporate Source	0	0
DTIC Technical Reports Collection	10	222
DTIC Thesaurus	0	0
Environmental Information Management System (EIMS) Server	4	4
Environmental Protection Agency (EPA) Reports	88	169,000
EPA Science Inventory	4	4
FDA Center for Biologics Eval & Research	10	99
FDA Center for Drug Eval & Research	6	6
FDA Center for Food Safety	1	1
Library of Congress	52	285
NASA Technical Reports Server	0	0
NASA Web Site	38	2,820,000
National Science Foundation	...	...





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All Results (866) DoD Pubs (100) Federal (193) Articles (1) Tech Transfer (120) Tech Reports (456)

Science (108)

Wikipedia

stretch radar surveillance

more...

1 [Netting and signal processing stretch radar surveillance](#)  
★★★★

Author: A. Farina. Title: Netting and signal processing stretch radar surveillance. Periodical: Signal. Volume: 46 no 4. Pages: 73-81. Date: Dec '91. ...  
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Collection Name	Results	Totals
AGRICOLA Articles Database	✓	0 0
AGRICOLA Books Database	✓	0 0
Army Heritage Collection Online	✓	0 0
Army Pubs	✓	0 0
ASSIST-Quick Search	✓	0 0
AULIMP (Air University Library)	✓	1 1
Bosun (Naval Postgraduate School)	✓	0 0
Center for Army Lessons Learned	✓	51 51
Combined Arms Research Library, Digital Library TRADOC, US Army	✗	0 0
CRS Reports	✓	23 23
Defense Supply Center Columbus	✓	0 0
DOD Biomedical Research	✓	0 0
DOD Labs	✗	0 0
DOD SBIR/STTR Award	✓	0 0
DOE Energy Citations Database	✓	100 167
DOE Information Bridge	✗	0 0
DOE R&D Accomplishments Database	✓	0 0
DOE R&D project Summaries Database	✓	18 22
DTIC Technical Reports Collection	✓	100 1,930
Environmental Information Management System (EIMS) Server	✓	0 0
Environmental Protection Agency (EPA) Reports	✓	43 46
EPA Science Inventory	✓	0 0
EPA Center for Biological Evaluation	✓	0 0

# Search Tips



The image shows the DTIC Online website interface. At the top left is the DTIC logo with the text "DTIC Online Information for the Defense Community". To the right are links for "Home | Site Map | Contact Us | About Us". Below this is a horizontal navigation bar with several tabs: "Home", "DTIC A-Z", "Submit Documents", "Current Issues", "Ask a Librarian", and "S&T Resources". The "S&T Resources" tab is circled in red with an arrow pointing to it. Underneath this bar is another row of tabs: "MultiSearch", "Registration", "Search Technical Reports", "Information Analysis Centers", "Search Tips", "Alerts Help", and "Customer Support". Below the tabs is a search area with a "New Search" button, a search input field, a "Refine Search" button, and links for "Advanced Search", "Create Alert from Search", and "Search".

## Search Help Topics

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- [Advanced Search](#)
- [Search Results](#)
- [Selecting, Exporting and Printing Results](#)
- [Collection Status](#)
- [Spelling Suggestion](#)
- [Search Tips](#)

See [Alerts Help](#) for Information on the Alerts Service

Try our Basic Search

- Just type in your key word(s), like "global warming," and select .
- You'll get results ranked by relevance. The higher the number of stars,  the more relevant the document is to your query.





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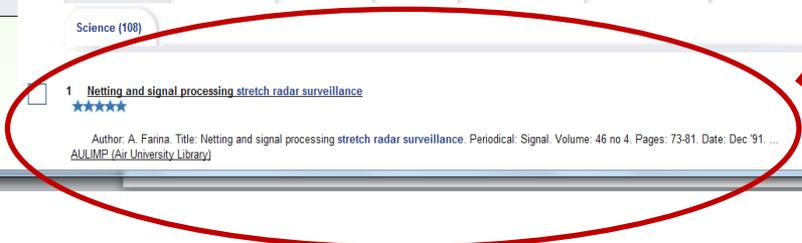
[My Clippings \(0\)](#) [Clear Clippings](#) [Alerts](#) [Print](#) [Email Results](#) [Collection Status](#) [Preferences](#) [Help](#)

Results 1 - 10 of 866 Sort by: Rank Limit to: All Publishers

Clusters: All Results (866) DoD Pubs (100) Federal (193) Articles (1) Tech Transfer (120) Tech Reports (456) Science (108)

1 **Netting and signal processing stretch radar surveillance** ★★★★★  
Author: A. Farina. Title: Netting and signal processing stretch radar surveillance. Periodical: Signal. Volume: 46 no 4. Pages: 73-81. Date: Dec '91. ... [AULIMP \(Air University Library\)](#)

Wikipedia: [stretch radar surveillance](#) more...





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# Enabling Discovery: The DTIC Registration Process

**Ms. Twilla Miller, DTIC**  
Customer Access Team, DTIC



# Registration Upgrades: Common Access Cards

- CAC Registration
  - Immediate access to DTIC tools
  - Reduced barriers for DoD Contractors
  - Instant renewal
  - Option to set password
  - Increased security



# Registration Upgrades: Federal Gov't (Non-DoD)

- Electronic Employment Verification with Office of Personnel Management (OPM)
  - Simplified registration Federal Government employees
  - No need for SF-50
  - Available: Late April to early May 2012
- Future: Personal Identity Verification (PIV) Registration/Access
  - Available: Calendar Year 2013



# Registration Upgrades: SIPRnet

- Secure Internet Protocol Router (SIPR) registration
  - Immediate access to DTIC SIPR tools
  - Reduced barriers for registration
  - Increased security



# Questions?





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