



NTIS Technical Reports Newsletter

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National Technical Information Service
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Alexandria, VA 22312

VOLUME 2
NUMBER 10
APRIL 15, 2010

Category 49 Electrotechnology

ADA499446
Advanced Visualization and Interactive Displays (AVID).
Air Force Research Laboratory, Rome, NY. Information Directorate.
2009
AFRL-RI-RS-TR-2009-115
Related Categories/Sub-categories:
49E (Optoelectronic Devices & Systems)
95D (Human Factors Engineering)

ADA500292
Removing Redundant Logic Pathways in Polymorphic Circuits.
Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.
2009, 129p
AFIT/GCS/ENG/09-03
Related Categories/Sub-categories:
46D (Solid State Physics)

ADA500624
Surface Acoustic Wave Devices as Chemical Vapor Sensors.
Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.
2009, 161p
AFIT/GE/ENG/09-16
Related Categories/Sub-categories:
49G (Resistive, Capacitive, & Inductive Components)
74D (Chemical, Biological, & Radiological Warfare)

ADA500659
Nanodevices from Nanocomponents: Memory Logic and Mechanical Nanodevices.
New Orleans University, LA.
2009, 21p
Related Categories/Sub-categories:
46(Physics)
62A (Computer Hardware)

ADA501063
Time-Reversal Based Range Extension Technique for Ultra-wideband (UWB) Sensors and Applications in Tactical Communications and Networking.
Tennessee Technological University, Wireless Networking System Laboratory
2009, 45p
Related Categories/Sub-categories:
45C (Common Carrier & Satellite)
94K (Laboratory & Test Facility Design & Operation)

ADA501262
Implantable Microsystems for Anatomical Rewiring of Cortical Circuitry: A New Approach for Brain Repair.
Case Western Reserve University, Cleveland, OH.
2009, 27p
Related Categories/Sub-categories:
57E (Clinical Medicine)

ADA502124
System Identification of an on Orbit Spacecraft's Antenna Dynamics.
Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.
2009, 97p
AFIT/GA/ENG/09-01
Related Categories/Sub-categories:
84D (Spacecraft Trajectories & Flight Mechanics)
84G (Unmanned Spacecraft)

ADA502658
Defense Industrial Base Assessment: U.S. Integrated Circuit Design and Fabrication Capability.
Bureau of Industry and Security, Washington, DC.
2009, 255p
Related Categories/Sub-categories:
41G (Quality Control & Reliability)

ADA503259
Simulation Concept - How to Exploit Tools for Computing Hybrids.
Air Force Research Laboratory, Rome, NY. Information Directorate.
2009, 53p
AFRL-RI-RS-TR-2009-179
Related Categories/Sub-categories:
62B (Computer Software)

ADA503261
Quantum Enhanced Imaging by Entangled States.
Northrop Grumman Systems Corp., Linthicum Heights, MD.
2009, 124p
AFRL-RI-RS-TR-2009-184
Related Categories/Sub-categories:
46 (Physics)
62 (Computers, Control & Information Theory)
63H (Radiofrequency Detection)



Category 49 Electrotechnology

ADA503929

National Nanotechnology Initiative: Research and Development Leading to a Revolution in Technology and Industry. Supplement to the President's FY 2010 Budget.

National Science and Technology Council, Washington, DC. Subcommittee on Nanoscale Science, Engineering and Technology. 2009, 45p

Related Categories/Sub-categories:

- 70B (Management Practice)
- 92 (Behavior & Society)
- 94K (Laboratory & Test Facility Design & Operation)

ADA508977

Designing a Sensorless Torque Estimator for Direct Torque Control of an Induction Motor. Naval Postgraduate School, Monterey, CA. Dept. of Electrical and Computer Engineering. 2009, 87p

Related Categories/Sub-categories:

- 46E (Structural Mechanics)
- 62B (Computer Software)
- 81B (Electric & Ion Propulsion)
- 97I (Electric Power Production)

DE2009961732

High-Power Radio Frequency Pulse Generation and Extraction Based on Wakefield Excited by an Intense Charged Particle Beam in Dielectric-Loaded Waveguides.

Department of Energy.

2009, 165p

ANL-HEP-TR-09-49

Related Categories/Sub-categories:

- 46 (Physics)
- 49F (Power & Signal Transmission Devices)

DE2009962649

Microstructure Sensitive Design and Processing in Solid Oxide Electrolyzer Cell.

Department of Energy.

2009, 77p

DOE/ID/14750

Related Categories/Sub-categories:

- 71D (Ceramics, Refractories, & Glass)
- 97O (Miscellaneous Energy Conversion & Storage)

N20090036992

Organization of Information: Approach and Early Work.

NASA Ames Research Center.

2009, 104p

NASA/TM-2009-215368

ARC-E-DAA-TN585

Related Categories/Sub-categories:

- 49E (Optoelectronic Devices & Systems)
- 51E (Avionics)
- 84A (Astronautics)
- 88B (Information Systems)
- 95D (Human Factors Engineering)

PB2009112815

Stopwatch and Timer Calibrations, 2009 Edition. National Institute of Standards and Technology 2009, 84p

NIST-SP-960-12-2009

See also PB2004-107229.

Related Categories/Sub-categories:

- 46 (Physics)
- 88E (Reference Materials)

PB2009114443

Photon-Detecting Superconducting Resonators. Technische Hogeschool Delft (Netherlands). 2009, 170p

Related Categories/Sub-categories:

- 49G (Resistive, Capacitive, & Inductive Components)
- 54B (Astronomy & Celestial Mechanics)

PB2009114648

Atmosphere Attenuation and Noise Temperature Models at DSN Antenna Locations for 145 GHz. National Aeronautics and Space Administration. 2009, 282p

JPL-PUB-09-14

Related Categories/Sub-categories:

- 49A (Antennas)
- 55A (Aeronomy)
- 55E (Physical Meteorology)

PB2010101608

Assessment of the National Institute of Standards and Technology Electronics and Electrical Engineering Laboratory, Fiscal Year 2009. National Institute of Standards and Technology. 2009, 48p

ISBN-13-978-0-309-14503-9

Related Categories/Sub-categories:

- 49 (Electrotechnology)
- 62A (Computer Hardware)

PB2010103735

Semiconductor Microelectronics and Nanoelectronics Programs, July 2009. National Institute of Standards and Technology. 2009, 323p

NISTIR-7604

Related Categories/Sub-categories:

- 46 (Physics)
- 49H (Semiconductor Devices)
- 70E (Research Program Administration & Technology Transfer)
- 71 (Materials Sciences)

PB2010103885

Surface Moving Map Industry Survey. Federal Aviation Administration. 2009, 86p

DOT-VNTSC-FAA-09-15

Related Categories/Sub-categories:

- 49E (Optoelectronic Devices & Systems)
- 51E (Avionics)
- 70 (Administration & Management)
- 76C (Navigation & Guidance System Components)
- 76D (Navigation Systems)
- 85A (Air Transportation)



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Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

NTIS Order Number
Title
Source
Report Year, Page Count
Report Number/ISBN13 (if available)
Related Categories/Sub-categories (where the document is also indexed)

Category 51 Aeronautics & Aerodynamics

ADA499246

[Influence of Structural Flexibility on Flapping Wing Propulsion.](#)

Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

2009, 180p

AFIT/DS/ENY/09-J01

Related Categories/Sub-categories:

46B (Fluid Mechanics)

51C (Aircraft)

ADA499437

[Enabling Technologies for Nano Air Vehicles.](#)

Oklahoma State University, Stillwater.

2009, 86p

Related Categories/Sub-categories:

46G (Plasma Physics)

51A (Aerodynamics)

51C (Aircraft)

ADA499487

[Deeply-Integrated Feature Tracking for Embedded Navigation.](#)

Air Force Institute of Technology, Wright-Patterson AFB, OH. School of Engineering.

2009, 92p

AFIT/GE/ENG/09-17

Related Categories/Sub-categories:

51C (Aircraft)

72F (Statistical Analysis)

76D (Navigation Systems)

ADA499531

[Centralized Cooperative Control for Route Surveillance with Constant Communication.](#)

Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

2009, 126p

AFIT/GE/ENG/09-38

Related Categories/Sub-categories:

45C (Common Carrier & Satellite)

51C (Aircraft)

74F (Military Intelligence)

ADA499739

[Target Acquisition Involving Multiple Unmanned Air Vehicles: Interfaces for Small Unmanned Air Systems \(ISUS\) Program.](#)

Human Effectiveness Directorate, Wright-Patterson AFB, OH.

2009, 83p

AFRL-RH-WP-TR-2009-0021

Related Categories/Sub-categories:

51C (Aircraft)

63 (Detection & Countermeasures)

74F (Military Intelligence)

ADA500317

[Aerospace Toxicology: An Overview.](#)

Federal Aviation Administration, Oklahoma City, OK. Civil Aerospace Medical Institute

2009, 52p

DOT-FAA-AM-09-8

Related Categories/Sub-categories:

51 (Aeronautics & Aerodynamics)

57E (Clinical Medicine)

57Y (Toxicology)

70D (Personnel Management, Labor Relations & Manpower Studies)

85A (Air Transportation)

92A (Job Training & Career Development)

ADA500323

[Determining the Orbit Locations of Turkish Airborne Early Warning and Control Aircraft Over the Turkish Air Space.](#)

Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

2009, 167p

AFIT/GOR/ENS/09-14

Related Categories/Sub-categories:

51A (Aerodynamics)

74B (Antimissile Defense Systems)

ADA500451

[Developing a Tool for the Location Optimization of the Alert Aircraft with Changing Threat Anticipation.](#)

Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

2009, 122p

AFIT/GOR/ENS/09-02

Related Categories/Sub-categories:

51C (Aircraft)

ADA500460

[Evaluation of Air Force Aircraft Maintenance Metrics for Integration into the Expeditionary Combat Support System.](#)

Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

2009, 159p

AFIT/GLM/ENS/09-13

Related Categories/Sub-categories:

51C (Aircraft)

ADA500845

[Vision-Aided, Cooperative Navigation for Multiple Unmanned Vehicles.](#)

Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

2009, 210p

AFIT/GE/ENG/09-05

Related Categories/Sub-categories:

45C (Common Carrier & Satellite)

51C (Aircraft)

74F (Military Intelligence)

76D (Navigation Systems)

ADA500979

[Propulsion and Power Rapid Response Research and Development Support: Fundamental Science Investigations for Propulsion and Power Systems.](#)

Universal Technology Corp., Dayton, OH.

2009, 236p

Related Categories/Sub-categories:

51C (Aircraft)

81D (Jet & Gas Turbine Engines)

ADA501272

[Computational Fluid Dynamic Model of Steam Ingestion into a Transonic Compressor.](#)

Naval Postgraduate School, Monterey, CA.

2009, 123p

Related Categories/Sub-categories:

41J (Tooling, Machinery, & Tools)

46B (Fluid Mechanics)

51C (Aircraft)

81A (Combustion & Ignition)

ADA501385

[Exploration of the Use of Unmanned Aerial Vehicles along with Other Assets to Enhance Border Protection.](#)

Naval Postgraduate School, Monterey, CA.

2009, 133p

Related Categories/Sub-categories:

51C (Aircraft)

74F (Military Intelligence)

85 (Transportation)

ADA501564

[Fighter Drawdown Dynamics: Effects on Aircrew Inventories.](#)

RAND Corp., Santa Monica, CA.

2009, 184p

Related Categories/Sub-categories:

51C (Aircraft)

70D (Personnel Management, Labor Relations & Manpower Studies)

74 (Military Sciences)

92A (Job Training & Career Development)

ADA501713

[Thermo-Vibro-Acoustic Loads and Fatigue of Hypersonic Flight Vehicle Structure.](#)

Goodrich (B.F.) Aerospace, Chula Vista, CA. Aerostructures Group.

2009, 478p

Related Categories/Sub-categories:

46A (Acoustics)

51C (Aircraft)



Category 51 Aeronautics & Aerodynamics

PB2010100140

Evaluation of TCAS II Version 7.1 Using the FAA Fast-Time Encounter Generator Model-Appendix, Volume 2.

Massachusetts Institute of Technology, Cambridge. Lincoln Laboratory

2009, 618p

ATC-346-V2

Related Categories/Sub-categories:

51B (Aeronautics)

51E (Avionics)

76C (Navigation & Guidance System Components)

85A (Air Transportation)

85D (Transportation Safety)

PB2010100141

Evaluation of TCAS II Version 7.1 Using the FAA Fast-Time Encounter Generator Model, Volume 1.

Massachusetts Institute of Technology, Cambridge. Lincoln Laboratory

2009, 100p

ATC-346-V1

Related Categories/Sub-categories:

51B (Aeronautics)

51E (Avionics)

76C (Navigation & Guidance System Components)

85A (Air Transportation)

85D (Transportation Safety)

ADA501757

Expanding Fixed-Wing Aircraft Capability in US Army Aviation Operations.

Army Command and General Staff College, Fort Leavenworth, KS.

2009, 135p

Related Categories/Sub-categories:

51C (Aircraft)

74E (Logistics, Military Facilities, & Supplies)

74G (Military Operations, Strategy, & Tactics)

ADA507764

Indoor Navigation for Unmanned Aerial Vehicles.

Georgia Institute of Technology, Atlanta.

2009, 30p

Related Categories/Sub-categories:

45C (Common Carrier & Satellite)

51C (Aircraft)

72B (Algebra, Analysis, Geometry, & Mathematical Logic)

ADA507771

Transition in Gas Turbine Engine Control System Architecture: Modular, Distributed, Embedded.

Air Force Research Laboratory, Wright-Patterson AFB, OH, Propulsion Directorate.

2009, 79p

AFRL-RZ-WP-TP-2009-2179

Related Categories/Sub-categories:

49 (Electrotechnology)

51C (Aircraft)

51E (Avionics)

81D (Jet & Gas Turbine Engines)

ADA511275

F-35 Joint Strike Fighter (JSF) Program:

Background and Issues for Congress. Updated September 25, 2009.

Congressional Research Service, Washington, DC.

2009, 108p

CRS-7-5700

CRS-RL30563

Related Categories/Sub-categories:

51C (Aircraft)

74 (Military Sciences)

ADA511318

Air Force F-22 Fighter Program: Background and Issues for Congress. Updated November 25, 2009.

Congressional Research Service, Washington, DC.

2009, 67p

CRS-RL31673

Related Categories/Sub-categories:

51C (Aircraft)

74 (Military Sciences)

96 (Business & Economics)

Major Subject Categories

| Category Codes*/Title | New for March Quantity** |
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| 63 Detection & Countermeasures..... | 83 |
| 68 Environmental Pollution & Control..... | 265 |
| 70 Administration & Management..... | 331 |
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| 72 Mathematical Sciences..... | 88 |
| 74 Military Sciences..... | 439 |
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| 84 Space Technology..... | 48 |
| 85 Transportation..... | 191 |
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| 89 Building Industry Technology..... | 29 |
| 90 Government Inventions for Licensing..... | 0 |
| 91 Urban & Regional Technology & Development..... | 306 |
| 92 Behavior & Society..... | 404 |
| 94 Industrial & Mechanical Engineering..... | 88 |
| 95 Biomedical Technology & Human Factors..... | 44 |
| 96 Business & Economics..... | 390 |
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| 98 Agriculture & Food..... | 234 |
| 99 Chemistry..... | 131 |

* For a listing of Scope Notes that defines the specific topical content for each category, go to <http://www.ntis.gov/pdf/scopenotes.pdf>

** Quantities represent each new report assigned on average to 3-5 categories.



Category 51 Aeronautics & Aerodynamics

N20090023315

Propulsion Investigation for Zero and Near-Zero Emissions Aircraft.

NASA Glenn Research Center.

2009, 30p

NASA/TM-2009-215487

E-16693

Related Categories/Sub-categories:

51C (Aircraft)

81 (Combustion, Engines, & Propellants)

97L (Engine Studies, Energy Related)

N20090024819

Fault Management in Manned Spacecraft: From Design to Operations.

NASA Johnson Space Center.

2009, 37p

JSC-CN-18329

Related Categories/Sub-categories:

51E (Avionics)

84 (Space Technology)

N20090030511

Static Aeroelastic Effects of Formation Flight for Slender Unswept Wings.

NASA Dryden Flight Research Center.

2009, 35p

NASA/TM-2009-214649

H-2980

DFRC-988

Related Categories/Sub-categories:

51A (Aerodynamics)

51C (Aircraft)

N20090038973

CFD Analysis of Nozzle Jet Plume Effects on Sonic Boom Signature.

NASA Dryden Flight Research Center.

2009, 45p

NASA/TM-2009-214650

Related Categories/Sub-categories:

51B (Aeronautics)

N20090040469

Design and Testing of a Miniature Turbofan Engine.

NASA Dryden Flight Research Center.

2009, 37p

Related Categories/Sub-categories:

51C (Aircraft)

PB2010100198

Transportation-Markings Database: Aeronautical Navigation Aids, Part IIV, Second Edition:

Volume 3, Additional Studies, Transportation-

Markings: A Study in Communication

Monograph Series.

Mount Angel Abbey, Saint Benedict, OR.

2009, 460p

Related Categories/Sub-categories:

51B (Aeronautics)

85A (Air Transportation)

PB2010100257

Developing Improved Civil Aircraft Arresting Systems, Airport Cooperative Research Program.

Transportation Research Board.

2009, 206p

ISBN 9780-309-11813-2

LCCN-2009941761

ACRP-SYN-29

Related Categories/Sub-categories:

51C (Aircraft)

71 (Materials Sciences)

85A (Air Transportation)

PB2010100838

Guidelines for Safe Use of Gaseous Halocarbon Extinguishing Agents in Aircraft.

William J. Hughes Technical Center, Atlantic City, NJ. Airport and Aircraft Safety Research and Development.

2009, 71p

DOT/FAA/AR-08/3

Related Categories/Sub-categories:

51C (Aircraft)

57Y (Toxicology)

99B (Industrial Chemistry & Chemical Process Engineering)

PB2010100841

Data Network Evaluation Criteria Report.

Honeywell, Inc., Minneapolis, MN.

2009, 234p

DOT/FAA/AR-09/27

Related Categories/Sub-categories:

51B (Aeronautics)

51C (Aircraft)

55A (Aeronomy)

88A (Operations & Planning)

88B (Information Systems)

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

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Category 54 Astronomy & Astrophysics

ADA499645

Detecting Near-Earth Objects Using Cross-Correlation with a Point Spread Function.

Air Force Institute of Technology, Wright-Patterson AFB, OH. Dept. of Engineering Physics.

2009, 72p

AFIT/GE/ENG/09-30

Related Categories/Sub-categories:

49 (Electrotechnology)

54B (Astronomy & Celestial Mechanics)

72B (Algebra, Analysis, Geometry, & Mathematical Logic)

72E (Operations Research)

ADA500330

Solar Radiation Alert System.

Federal Aviation Administration, Oklahoma City, OK. Civil Aerospace Medical Institute

2009, 28p

DOT/FAA/AM-09/6

Related Categories/Sub-categories:

41I (Job Environment)

54C (Astrophysics)

57U (Public Health & Industrial Medicine)

ADA508842

Large Quasar Reference Frame (LQRF). An Optical Representation of the ICRS.

National Observatory (Brazil).

2009, 21p

Related Categories/Sub-categories:

54B (Astronomy & Celestial Mechanics)

ADA511926

Extending the Strategy Based Risk Model Using the Delphi Method: An Application to the Validation Process for Research and Development(R&D)Satellites.

Responsive Space Command and Control Kirtland AFB, NM.

2009, 178p

AFIT/GSE/ENV/09-03DL

Related Categories/Sub-categories:

54C (Astrophysics)

84G (Unmanned Spacecraft)

ADA512562

Influence of Sun and Other Cosmic Factors on Environment of the Earth.

Jawaharlal Nehru University, New Delhi (India).

2010, 15p

AOARD-07-4096

Related Categories/Sub-categories:

55A (Aeronomy)

54C (Astrophysics)

DE2009951588

Wind-To-Hydrogen Energy Pilot Project: Basin Electric Power Cooperative. Final Report for the Period of September 1, 2004 through December 31, 2008.

Department of Energy, Golden, CO.

2009, 224p

Related Categories/Sub-categories:

54C (Astrophysics)

97O (Miscellaneous Energy Conversion & Storage)

99F (Physical & Theoretical Chemistry)

DE2009952979

Possible Interpretations of the High Energy Electron-Positron Spectrum Measured by the Fermi Large Area Telescope.

Stanford Linear Accelerator Center, CA.

2009, 28p

SLAC-PUB-13617

Related Categories/Sub-categories:

46 (Physics)

54D (Cosmic Ray Research)

N20090022149

Research in NASA History: A Guide to the NASA History Program.

National Aeronautics and Space Administration (NASA).

2009, 89p

NASA-SP-2009-4543

ISBN 978-0-16-082601-6

Related Categories/Sub-categories:

54 (Astronomy & Astrophysics)

N20090025941

Lunar History.

NASA Marshall Space Flight Center.

2009, 22p

M09-0379

Related Categories/Sub-categories:

54A (Astrogeology)

84B (Extraterrestrial Exploration)

N20090025988

NASA: Engineering Space Exploration - Launching to the Moon, Mars, and Beyond.

NASA Marshall Space Flight Center.

2009, 33p

MSFC-2217

Related Categories/Sub-categories:

54 (Astronomy & Astrophysics)

84B (Extraterrestrial Exploration)

N20090028005

Five Millennium Catalog of Solar Eclipses: -1999 to +3000 (2000 BCE to 3000 CE)-Revised.

NASA Goddard Space Flight Center.

2009, 274p

NASA/TP-2009-214174

Related Categories/Sub-categories:

54B (Astronomy & Celestial Mechanics)

PB2010103717

Near-Earth Object Surveys and Hazard Mitigation Strategies.

National Research Council, Washington, DC.

2009, 40p

ISBN-978-0-309-14361-5

Related Categories/Sub-categories:

54B (Astronomy & Celestial Mechanics)

84B (Extraterrestrial Exploration)

PB2010100211

Heliophysics: The Solar and Space Physics of a New Era : Recommended Roadmap for Science and Technology 2009-2030.

National Aeronautics and Space Administration, Huntsville, AL. George C. Marshall Space Flight Center.

2009, 162p

Related Categories/Sub-categories:

54 (Astronomy & Astrophysics)

84 (Space Technology)

Subject Category Codes/ Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories, the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from one to five, although there are some reports with more.



Category 55 Atmospheric Sciences

ADA499658

Cost Forecasting Models for the Air Force Flying Hour Program.

Air Force Institute of Technology, Wright-Patterson AFB, OH. School of Engineering and Management.

2009, 104p

AFIT/GCA/ENV/09-M07

Related Categories/Sub-categories:

51C (Aircraft)

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

96 (Business & Economics)

ADA500327

Operations-Focused Optimized Theater Weather Sensing Strategies Using Preemptive Binary Integer Programming.

Air Force Institute of Technology, Wright-Patterson AFB, OH. School of Engineering and Management.

2009, 130p

AFIT/GOR/ENS/09-06

Related Categories/Sub-categories:

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

74G (Military Operations, Strategy, & Tactics)

ADA500380

Fuel Consumption Algorithm for Unmanned Aircraft Systems.

Army Research Laboratory, White Sands Missile Range, NM.

2009, 39p

ARL-TR-4803

Related Categories/Sub-categories:

51C (Aircraft)

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

97K (Fuels)

ADA500785

Global Climate Change - U.S. Economic and National Security Opportunity.

Army War College, Carlisle Barracks, PA.

2009, 36p

Related Categories/Sub-categories:

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

55E (Physical Meteorology)

92 (Behavior & Society)

ADA500986

Global Warming: Its Implications for U.S. National Security Policy.

Army War College, Carlisle Barracks, PA.

2009, 30p

Related Categories/Sub-categories:

55A (Aeronomy)

55E (Physical Meteorology)

74F (Military Intelligence)

92 (Behavior & Society)

ADA501137

Climate Analysis and Long Range Forecasting of Dust Storms in Iraq.

Naval Postgraduate School, Monterey, CA.

2009, 85p

Related Categories/Sub-categories:

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

ADA501568

Climate Analysis and Long Range Forecasting of Radar Performance in the Western North Pacific.

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68A (Air Pollution & Control)

92C (Social Concerns)

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Airborne Research, Australia.

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Army Materiel Test and Evaluation Directorate, White Sands Missile Range, NM. Survivability Vulnerability and Assessment Directorate (SVAD).

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46H (Radiofrequency Waves)

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70B (Management Practice)

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Argonne National Laboratory, IL. Mathematics and Computer Science Division.

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National Renewable Energy Laboratory, Golden, CO.

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Modeling the Transport and Chemical Evolution of Onshore and Offshore Emissions and Their Impact on Local and Regional Air Quality Using a Variable-Grid-Resolution Air Quality Model.

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55 (Atmospheric Sciences)

68A (Air Pollution & Control)

97K (Fuels)

99D (Basic & Synthetic Chemistry)



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68A (Air Pollution & Control)

91A (Environmental Management & Planning)

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47B (Dynamic Oceanography)

48F (Geology & Geophysics)

48G (Hydrology & Limnology)

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

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Characterization of Emissions from Commercial Aircraft Engines During the Aircraft Particle Emissions eXperiment (APEX) 1 to 3.

National Risk Management Research Laboratory, Cincinnati, OH. Office of Research and Development.

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55A (Aeronomy)

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National Academy of Sciences-National Research Council, Washington, DC.

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48F (Geology & Geophysics)

55A (Aeronomy)

77 (Nuclear Science & Technology)

97 (Energy)

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Understanding the Science of Climate Change.

Talking Points: Impact to Western Mountains and Forests.

National Park Service, Fort Collins, CO. Natural Resource Program Center.

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68 (Environmental Pollution & Control)

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National Research Council, Washington, DC. Board on Atmospheric Sciences and Climate.

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97R (Environmental Studies)

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National Oceanic and Atmospheric Administration, Seattle, WA. Pacific Marine Environmental Laboratory

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68 (Environmental Pollution & Control)

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Climate Change Adaptation: Strategic Federal Planning Could Help Government Officials Make More Informed Decisions.

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43G (Transportation)

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

85A (Air Transportation)

91B (Transportation & Traffic Planning)



Category 84 Space Technology

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79H (Rockets)

84G (Unmanned Spacecraft)

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Related Categories/Sub-categories:

62 (Computers, Control & Information Theory)

84D (Spacecraft Trajectories & Flight

Mechanics)

ADA505163

[Campaign-level Science Traceability for Earth Observation System Architecting.](#)

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84G (Unmanned Spacecraft)

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Massachusetts Institute of Technology, Cambridge.

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72B (Algebra, Analysis, Geometry, & Mathematical Logic)

72F (Statistical Analysis)

84G (Unmanned Spacecraft)

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Air Force Institute of Technology, Wright-Patterson AFB, OH. Graduate School of Engineering and Management.

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84G (Unmanned Spacecraft)

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76D (Navigation Systems)

84D (Spacecraft Trajectories & Flight

Mechanics)

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70B (Management Practice)

84A (Astronautics)

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[AU-18 Space Primer.](#)

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84A (Astronautics)

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[Exploring Venus.](#)

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57U (Public Health & Industrial Medicine)

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- 84 (Space Technology)

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- 57E (Clinical Medicine)
- 84 (Space Technology)

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- 62 (Computers, Control & Information Theory)
- 84 (Space Technology)
- 88B (Information Systems)

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[Defense Acquisitions: Challenges in Aligning Space System Components.](#)

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Related Categories/Sub-categories:

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- 74E (Logistics, Military Facilities, & Supplies)
- 74G (Military Operations, Strategy, & Tactics)
- 84G (Unmanned Spacecraft)

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- 84A (Astronautics)

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Aeronautics and Space Engineering Board.

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- 70B (Management Practice)
- 84 (Space Technology)

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