



## NTIS Technical Reports Newsletter

**Purpose:** To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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U.S. Department of Commerce  
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## Category 49: Electrotechnology

**PB2009100885**  
Export Controls: Challenges with Commerce's Validated End-User Program May Limit Its Ability to Ensure That Semiconductor Equipment Exported to China Is Used as Intended.  
Government Accountability Office.  
2008, 51 pages  
GAO-08-1095  
Related Categories/Sub-categories:  
74E (Logistics, Military Facilities, & Supplies)  
96C (International Commerce, Marketing, & Economics)

**PB2008114266**  
Current Status, Plans, and Constraints Related to Expansion of Natural Gas-Fired Power Plants, Pipelines and Bulk Electric Transmission in the California/Mexico Border Region.  
California Energy Commission.  
2008, 69 pages  
CEC-600-2008-008  
Related Categories/Sub-categories:  
43 (Problem Solving Information for State & Local Governments)  
97E (Electric Power Transmission)  
97I (Electric Power Production)  
97K (Fuels)

**PB2008114264**  
New Solar Homes Partnership Revised Second Edition.  
California Energy Commission.  
2008, 81 pages  
CEC-300-2008-006-D  
Related Categories/Sub-categories:  
46D (Solid State Physics)  
89C (Construction Management & Techniques)  
96 (Business & Economics)  
97B (Energy Use, Supply, & Demand)  
97N (Solar Energy)

**PB2008111471**  
Proceedings of the International Symposium on Integrated Ferroelectrics (19) (ISIF-19). Part 4. Volume 96 (2008). Held in Bordeaux, France on May 8-12, 2007.  
Colorado University at Colorado Springs.  
2008, 212 pages  
Related Categories/Sub-categories:  
46 (Physics)

**PB2008109609**  
Aircraft Wiring Degradation Study. Department of Transportation.  
2008, 275 pages  
Related Categories/Sub-categories:  
51C (Aircraft)  
51E (Avionics)  
49F (Power & Signal Transmission Devices)  
71L (Materials Degradation & Fouling)

**N20080023780**  
IR DirectFET Extreme Environments Evaluation, Final Report.  
National Aeronautics and Space Administration.  
2008, 57 pages  
Related Categories/Sub-categories:  
81D (Jet & Gas Turbine Engines)

**DE2008932884**  
Application of Taylor Weighting, Digital Phase Shifters, and Digital Attenuators to Phased-Array Antennas.  
Department of Energy.  
2008, 130 pages  
SAND2008-1687  
Related Categories/Sub-categories:  
62 (Computers, Control & Information Theory)  
63H (Radiofrequency Detection)

**DE2008932779**  
Commercialization Demonstration of Mid-Sized Superconducting Magnetic Energy Storage Technology for Electric Utility Applications.  
Department of Energy.  
2008, 83 pages  
Related Categories/Sub-categories:  
46D (Solid State Physics)  
97E (Electric Power Transmission)  
97I (Electric Power Production)  
97O (Miscellaneous Energy Conversion & Storage)



## Category 49: Electrotechnology

DE2008928973

Development of Ultra-Efficient Electric Motors.  
Final Technical Report covering work from April  
2002 through September 2007.

Department of Energy.

2008, 65 pages

DOE CH10580 FINAL REPORT

Related Categories/Sub-categories:

97 (Energy)

ADA488243

Development of Real Time Non-Intrusive Load  
Monitor for Shipboard Fluid Systems.

Department of Defense.

2008, 107 pages

Related Categories/Sub-categories:

46 (Physics)

47A (Marine Engineering)

94K (Laboratory & Test Facility Design &  
Operation)

ADA488187

Automated Classification of Power Signals.

Department of Defense.

2008, 179 pages

Related Categories/Sub-categories:

47A (Marine Engineering)

68C (Solid Wastes Pollution & Control)

99B (Industrial Chemistry & Chemical Process  
Engineering)

ADA487086

AFIT/GE/ENG/08-03

Conceptual Study of Rotary-Wing Microrobotics.

Department of Defense.

2008, 170 pages

Related Categories/Sub-categories:

46B (Fluid Mechanics)

51C (Aircraft)

62 (Computers, Control & Information Theory)

## Category 51: Aeronautics & Aerodynamics

ADA487540

Spring 2008 Industry Study: Aircraft Industry.

Department of Defense

2008, 38 pages

Related Categories/Sub-categories:

85A (Air Transportation)

96A (Business & Economics)

ADA488119

Improving the Tanker Employment Model.

Department of Defense

2008, 189 pages

AFIT/ILM/ENS/08-02

Related Categories/Sub-categories:

74 (Military Sciences)

ADA488141

Combat Identification Using Multiple TUAV  
Swarm.

Department of Defense

2008, 79 pages

AFIT/GOR/ENS/08-09

Related Categories/Sub-categories:

63F (Optical Detection)

74 (Military Sciences)

DE2008933221

Computational Design and Analysis of Flatback  
Airfoil Wind Tunnel Experiment.

Department of Energy

2008, 41 pages

SAND2008-1782

Related Categories/Sub-categories:

46B (Fluid Mechanics)

51A (Aerodynamics)

97O (Miscellaneous Energy Conversion &  
Storage)

N20080025993

Intelligent Engine Systems: Thermal  
Management and Advanced Cooling.

National Aeronautics and Space Administration

2008, 103 pages

NASA/CR-2008-215238, E-16497

Related Categories/Sub-categories:

81D (Jet & Gas Turbine Engines)

99F (Physical & Theoretical Chemistry)

N20080025994

Intelligent Engine Systems: Acoustics.

National Aeronautics and Space Administration

2008, 61 pages

NASA/CR-2008-215235, E-16494

Related Categories/Sub-categories:

46A (Acoustics)

46B (Fluid Mechanics)

68B (Noise Pollution)

81D (Jet & Gas Turbine Engines)

84 (Space Technology)

### Major Subject Categories

Category Codes*/Title	New for December Quantity**
41 Manufacturing Technology	56
43 Problem Solving Information for State & Local Governments	310
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46 Physics	293
47 Ocean Sciences & Technology	172
48 Natural Resources & Earth Sciences	267
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57 Medicine & Biology	518
62 Computers, Control & Information Theory	422
63 Detection & Countermeasures	90
68 Environmental Pollution & Control	235
70 Administration & Management	597
71 Materials Sciences	88
72 Mathematical Sciences	157
74 Military Sciences	485
75 Missile Technology	4
76 Navigation, Guidance, & Control	11
77 Nuclear Science & Technology	120
79 Ordnance	60
81 Combustion, Engines, & Propellants	38
82 Photography & Recording Devices	14
84 Space Technology	88
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\* 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

N20080025995

Intelligent Engine Systems: Adaptive Control.  
National Aeronautics and Space Administration  
2008, 85 pages  
NASA/CR-2008-215240, E-16499  
Related Categories/Sub-categories:  
46B (Fluid mechanics)  
81D (Jet and Gas Turbine Engines)

N20080026266

Analysis of a Dynamic Multi-Track Airway  
Concept for Air Traffic Management.  
National Aeronautics and Space Administration  
2008, 94 pages  
NASA/TP-2008-215323, L-19462  
Related Categories/Sub-categories:  
85A (Air transportation)

N20080032604

Enhanced Self Tuning On-Board Real-  
Time Model (eSTORM) for Aircraft Engine  
Performance Health Tracking.  
National Aeronautics and Space Administration.  
2008, 58 pages  
NASA/CR-2008-215272, FR-26751, E-16543  
Related Categories/Sub-categories:  
81D (Jet & Gas Turbine Engines)

N20080034426

2007 Western States Fire Mission.  
National Aeronautics and Space Administration.  
2008, 31 pages  
Related Categories/Sub-categories:  
48B (Natural Resource Management)  
85A (Air Transportation)

N20080034656

Aerodynamic Effects and Modeling of Damage  
to Transport Aircraft.  
National Aeronautics and Space Administration.  
2008, 13 pages  
AIAA-2008-6203  
Related Categories/Sub-categories:  
46B (Fluid mechanics)  
85A (Air transportation)

PB2008114151

Scientific Basis and Design of a Ground-Based  
Remote Icing Detection System (GRIDS).  
National Aeronautics and Space Administration.  
2008, 136 pages  
NOAA-TM-OAR-PSD-312  
Related Categories/Sub-categories:  
55C (Meteorological Data Collection,  
Analysis, & Weather Forecasting)  
55D (Meteorological Instruments & Instrument  
Platforms)

PB2009101092

NASA (National Aeronautics and Space  
Administration) Aeronautics Research: An  
Assessment.  
National Aeronautics and Space Administration.  
2008, 122 pages  
ISBN-978-0-309-11913-9  
Related Categories/Sub-categories:  
70E (Research Program Administration &  
Technology Transfer)  
84 (Space Technology)  
85A (Air Transportation)

PB2009102024

Special Certification Review. Eclipse Aviation  
Corporation Model EA500 Airplane.  
Federal Aviation Administration.  
2008, 61 pages  
Related Categories/Sub-categories:  
85A (Air Transportation)  
85D (Transportation Safety)

PB2009102116

Unmanned Aircraft Systems: Additional Actions  
Needed to Improve Management and Integration  
of DOD Efforts to Support Warfighter Needs.  
Government Accountability Office.  
2008, 46 pages  
GAO-09-175  
Related Categories/Sub-categories:  
74G (Military Operations, Strategy, & Tactics)

PB2009102148

Vertical Impact Response Characteristics of Four  
Commuter/Regional Airplanes.  
Department of Transportation.  
2008, 49 pages  
Related Categories/Sub-categories:  
85A (Air Transportation)  
85D (Transportation Safety)

## Category 54: Astronomy & Astrophysics

ADA485325

Initial Determination of Low Earth Orbits Using  
Commercial Telescopes.  
Department of Defense  
2008, 90 pages  
AFIT/GA/ENY/08-M11  
Related Categories/Sub-categories:  
45C (Common Carrier & Satellite)  
63C (Infrared & Ultraviolet Detection)  
84D (Spacecraft Trajectories & Flight Mechan-  
ics)

ADA486104

Extending F10.7's Time Resolution to Capture  
Solar Flare Phenomena.  
Department of Defense  
2008, 187 pages  
Related Categories/Sub-categories:  
55A (Aeronomy)

DE2008935475

Search for Particle Dark Matter Using Cryogenic  
Germanium and Silicon Detectors in the One-  
and Two-Tower Runs of CDMS-II at Soudan.  
Department of Energy  
2008, 333 pages  
Related Categories/Sub-categories:  
46 (Physics)

DE2008935683

Atomic Gravitational Wave Interferometric Sen-  
sor (AGIS).  
Department of Energy  
2008, 41 pages  
SLAC-PUB-13336  
Related Categories/Sub-categories:  
63F (Optical Detection)

N20080010884

Generation Y Perspectives.  
National Aeronautics and Space Administration  
2008, 90 pages  
Related Categories/Sub-categories:  
45C (Common Carrier & Satellite)  
84 (Space Technology)  
92C (Social Concerns)

N20080015523

Lunar Dust Simulant in Mechanical Component  
Testing - Paradigm and Practicality.  
National Aeronautics and Space Administration  
2008, 37 pages  
Related Categories/Sub-categories:  
84B (Extraterrestrial Exploration)

### 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 54: Astronomy & Astrophysics

N20080030106

Relationship between Solar Wind Speed, Earthward-Directed Coronal Mass Ejections, Geomagnetic Activity, and the Sunspot Cycle Using 12-Month Moving Averages.  
National Aeronautics and Space Administration  
2008, 94 pages  
NASA/TP-2008-215413  
Related Categories/Sub-categories:  
55A (Aeronomy)

N20080032725

Launching to the Moon, Mars, and Beyond.  
National Aeronautics and Space Administration  
2008, 32 pages  
Related Categories/Sub-categories:  
84B (Extraterrestrial Exploration)

N20080032805

NASA Lunar Impact Monitoring Program.  
National Aeronautics and Space Administration  
2008, 42 pages  
Related Categories/Sub-categories:  
84B (Extraterrestrial Exploration)

PB2008109370

Astronomical Almanac for the Year 2009.  
National Aeronautics and Space Administration  
2008, 584 pages  
Related Categories/Sub-categories:  
84 (Space Technology)

PB2008112448

NASA's Beyond Einstein Program: An Architecture for Implementation.  
National Aeronautics and Space Administration  
2008, 186 pages  
ISBN-978-0-309-11162-1, ISBN-0-309-11162-5  
Related Categories/Sub-categories:  
46 (Physics)  
84 (Space Technology)

## Category 55: Atmospheric Sciences

PB2009102296

Satellite Observations to Benefit Science and Society: Recommended Missions for the Next Decade.  
National Academy of Science, National Research Council  
2008, 40 pages  
Related Categories/Sub-categories:  
48C (Natural Resource Surveys)  
84 (Space Technology)

PB2009102255

Development and Testing of a Semi-Distributed Watershed Model: Case Studies Exploring the Impact of Climate Variability and Change in the Rio Salado.  
U.S. Geological Survey  
2008, 156 pages  
NM-WRRI-TCR-345  
Related Categories/Sub-categories:  
48B (Natural Resource Management)  
48G (Hydrology & Limnology)

PB2009102026

Review of the Impacts of Climate Variability and Change Variability and Change on Aeroallergens and Their Associated Effects.  
Environmental Protection Agency  
2008, 108 pages  
EPA/600/R-06/164F  
Related Categories/Sub-categories:  
57J (Immunology)  
68A (Air Pollution & Control)

PB2009101766

Lightning-Warning Systems for Use by Airports.  
Federal Aviation Administration  
2008, 82 pages  
ACRP-8  
Related Categories/Sub-categories:  
57U (Public Health & Industrial Medicine)  
85A (Air Transportation)  
85D (Transportation Safety)

PB2009100680

Antarctica: A Keystone in a Changing World. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara.  
U.S. Geological Survey  
2008, 162 pages  
ISBN-13:978-0-309-11854-5  
Related Categories/Sub-categories:  
47 (Ocean Sciences & Technology)  
48F (Geology & Geophysics)

PB2009100640

Detection Probability Modeling for Airport Wind-Shear Sensors.  
Federal Aviation Administration  
2008, 76 pages  
ATC-340  
Related Categories/Sub-categories:  
85A (Air Transportation)

PB2008114614

Potential Impacts of Climate Change on U.S. Transportation.  
Department of Transportation.  
2008, 298 pages  
TRB-SR-290  
Related Categories/Sub-categories:  
68A (Air Pollution & Control)  
85 (Transportation)  
91A (Environmental Management & Planning)  
91B (Transportation & Traffic Planning)

PB2009100542

Climate Change: Federal Actions Will Greatly Affect the Viability of Carbon Capture and Storage As a Key Mitigation Option.  
Government Accountability Office.  
2008, 71 pages  
GAO-08-1080  
Related Categories/Sub-categories:  
43F (Environment)  
48B (Natural Resource Management)  
57H (Ecology)  
68A (Air Pollution & Control)  
70F (Public Administration & Government)  
91A (Environmental Management & Planning)

PB2008114112

Analyses of the Effects of Global Change on Human Health and Welfare and Human Systems. Final Report, Synthesis and Assessment Product 4.6.  
Environmental Protection Agency.  
2008, 283 pages  
Related Categories/Sub-categories:  
57U (Public Health & Industrial Medicine)  
68G (Environmental Health & Safety)

PB2008113024

Scientific Assessment of the Effects of Global Change on the United States.  
Department of Commerce.  
2008, 271 pages  
Related Categories/Sub-categories:  
57H (Ecology)  
68A (Air Pollution & Control)

PB2008113002

Effects of Climate Change on Agriculture, Land Resources, Water Resources, and Biodiversity in the United States.  
Department of Agriculture.  
2008, 275 pages  
Related Categories/Sub-categories:  
43F (Environment)  
48B (Natural Resource Management)  
57H (Ecology)  
91A (Environmental Management & Planning)

### 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

ADA476735

Assessment of China's Anti-Satellite and Space Warfare Programs, Policies and Doctrines.

Department of Defense.

2008, 81 pages

Related Categories/Sub-categories:

74A (Antiaircraft Defense Systems)

92E (International Relations)

84A (Astronautics)

ADA478576

Responding Logistically to Future Natural and Man-Made Disasters and Catastrophes.

Department of Defense.

2008, 39 pages

Related Categories/Sub-categories:

91I (Emergency Services & Planning)

74E (Logistics, Military Facilities, & Supplies)

ADA479787

Predicting Hail Size Using Model Vertical Velocities.

Department of Defense.

2008, 67 pages

Related Categories/Sub-categories:

46B (Fluid mechanics)

72E (Operations research)

ADA479822

Modeling Atmospheric Effects on Wireless Networks.

Department of Defense

2008, 79 pages

Related Categories/Sub-categories:

45C (Common Carrier & Satellite)

72E (Operations Research)

ADA479883

Verification of the AFWA 3-Element Severe Weather Forecast Algorithm.

Department of Defense

2008, 107 pages

Related Categories/Sub-categories:

72E (Operations research)

74 (Military Sciences)

DE200815003974

Solar Position Algorithm for Solar Radiation Application.

Department of Energy

2008, 56 pages

NREL/TP-560-34302

Related Categories/Sub-categories:

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

97N (Solar Energy)

DE2008935107

U.S. Department of Energy Workshop Report - Research Needs for Wind Resource Characterization.

Department of Energy.

2008, 116 pages

NREL/TP-500-43521

Related Categories/Sub-categories:

97A (Reserves)

97O (Miscellaneous Energy Conversion & Storage)

DE2008935111

Determining the Capacity Value of Wind: An Updated Survey of Methods and Implementation; Preprint.

Department of Energy

2008, 30 pages

NREL/CP-500-43433

Related Categories/Sub-categories:

97A (Reserves)

97O (Miscellaneous Energy Conversion & Storage)

N20080023370

Laboratory for Atmospheres 2007 Technical Highlights.

National Aeronautics and Space Administration.

2008, 170 pages

NASA/TM--2008-214160

Related Categories/Sub-categories:

48 (Natural Resources & Earth Sciences)

# Coming Soon



U.S. Department of Commerce

**National Technical Reports Library**

In early Spring 2009, NTIS will be launching the National Technical Reports Library (NTRL) to further enhance accessibility to the NTIS technical reports collection.

The NTRL will provide access to:

- Bibliographic records of more than 2,000,000 technical reports
- Downloadable full text of 500,000 of these reports in PDF format

Subscription rates will be based on institutional FTE levels.

The NTRL operates on a system interface that allows users to do queries on the large NTIS bibliographic database. The intent is to broadly expand and improve access to over 2.5 million bibliographic records (pre-1960 to present) and 500k full-text documents in PDF Format that are directly linked to that bibliographic database.

**If interested, write us at [ntrnews@ntis.gov](mailto:ntrnews@ntis.gov), subject line NTRL Information; and we will send you more information.**

**RSS Feeds Now Available** in your choice of NTIS Subject Category. For information go to <http://www.ntis.gov/rss/rssntiscategorylist.aspx> and look for the Category RSS Feeds button.



## Category 84: Space Technology

PB2009100247

Ensuring the Climate Record from the NPOESS and GOES-R Spacecraft: Elements of a Strategy to Recover Measurement Capabilities Lost Program Restructuring.

National Academy of Sciences, National Research Council  
2008, 191 pages

Related Categories/Sub-categories:

- 45C (Common Carrier & Satellite)
- 55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

PB2008113006

Actions Needed to Ensure Scientific and Technical Information is Adequately Reviewed at Goddard Space Flight Center, Johnson Space Center, Langley Research Center, and Marshall Space Flight Center.

National Aeronautics and Space Administration.  
2008, 42 pages

IG-08-017

Related Categories/Sub-categories:

- 88B (Information Systems)

PB2008112878

Aerospace Mechanisms Symposium. (39th), Held in Huntsville, Alabama on May 7-8, 2008.

National Aeronautics and Space Administration  
2008, 426 pages

NASA/CP-2008-215252

Related Categories/Sub-categories:

- 94 (Industrial & Mechanical Engineering)

PB2008111657

Environmental Satellites: Polar-Orbiting Satellite Acquisition Faces Delays; Decisions Needed on Whether and How to Ensure Climate Data.

Government Accountability Office.

2008, 53 pages

GAO-08-518

Related Categories/Sub-categories:

- 45C (Common Carrier & Satellite)
- 55C (Meteorological Data Collection, Analysis, & Weather Forecasting)
- 70F (Public Administration & Government)

N20080036560

Space Nuclear Power and Propulsion: Materials Challenges for the 21st Century.

National Aeronautics and Space Administration  
2008, 56 pages

Related Categories/Sub-categories:

- 81I (Nuclear propulsion)
- 97Q (Selected studies in Nuclear Technology)

N20080032805

NASA Lunar Impact Monitoring Program.

National Aeronautics and Space Administration  
2008, 42 pages

Related Categories/Sub-categories:

- 54 (Astronomy & Astrophysics)

ADA482679

Environmental Satellites: Polar-orbiting Satellite Acquisition Faces Delays; Decisions Needed on Whether and How to Ensure Climate Data Continuity.

Department of Defense

2008, 35 pages

GAO-08-899T

Related Categories/Sub-categories:

- 55D (Meteorological Instruments & Instrument Platforms)

ADA482546

Predicting Cost and Schedule Growth for Military and Civil Space Systems.

Department of Defense.

2008, 145 pages

AFIT/GRD/ENC/08M-01

Related Categories/Sub-categories:

- 74E (Logistics, Military Facilities, & Supplies)
- 96 (Business & Economics)

ADA482054

Reconsidering the Rules for Space Security.

Department of Defense.

2008, 99 pages

Related Categories/Sub-categories:

- 74G (Military Operations, Strategy, & Tactics)
- 75A (Air & Space Launched Missiles)

ADA480178

Deterring and Dissuading in Space: A Systems Approach.

Department of Defense.

2008, 33 pages

Related Categories/Sub-categories:

- 70B (Management Practice)

ADA478890

Space Based Satellite Tracking and Characterization Utilizing Non-Imaging Passive Sensors.

Department of Defense.

2008, 112 pages

AFIT/GA/ENY/08-M06

Related Categories/Sub-categories:

- 63 (Detection & Countermeasures)

ADA478788

Uncorrelated Track Avoidance.

Department of Defense.

2008, 112 pages

AFIT/GA/ENY/08-M10

Related Categories/Sub-categories:

- 45C (Common carrier and satellite)

### The Nation's Source for Scientific Information

The National Technical Information Service (NTIS), is the nation's largest and most comprehensive source of government-funded scientific, technical, engineering and business-related information.

For more than 60 years, we have served as an innovative resource to Federal agencies, businesses and universities looking for high-caliber information. Our mission is straight-forward: to support the nation's economic growth by providing access to information that stimulates innovation and discovery.

While you can find information on virtually any subject on the web, there's no guarantee that the information is accurate — or that it has been published by a legitimate source. NTIS undergoes a rigorous process to ensure that all the information we offer is authentic and credible. This integrity, along with the breadth and depth of our collection, is why NTIS is regarded as the nation's preeminent source of government information.

