



Newsletter – September 2005

Dryden Research Library is located in Bldg. 4800 Room 2412. Check out our home page: <http://www.dfrc.nasa.gov/Organizations/TechPubs/Library/index.html>

For any of your library needs please contact via email or call:

Barbara Rogers, the Librarian at ext. 3702,
email: barbara.rogers@dfrc.nasa.gov

Renee Richardson, the Library Technician at ext. 3127,
email: renee.richardson@dfrc.nasa.gov

The Dryden Research Library staff are part of the ITI/SCSC Team and their Technical Monitor is:

Ron Ray, at ext.3687, email: ron.ray@dfrc.nasa.gov

[NOTICE: To access the NASA Dryden Research Library Webpage, see web address below:](#)

<http://www1.nasa.gov/centers/dryden/about/Organizations/TechPubs/Library/index.html>

NASA Aeronautics and Space Database Training

Two representatives from the NASA Center for AeroSpace Information (CASI) located in Maryland will be visiting Dryden on Tuesday and Wednesday, September 6 and 7, 2005. **Tanya Gutierrez and Kurt McIntyre will be demonstrating the NASA Aeronautics and Space Database during two one hour training sessions from 2:00 p.m.-3:00 p.m. on Tuesday, September 6 and from 10:00 a.m.-11:00 a.m. on Wednesday, September 7 both training will be held in the Large Mezzanine in Building 4800.** Come find out how to search the NASA Aeronautics and Space Database more effectively!

The NASA Aeronautics and Space Database is a multidisciplinary resource with an emphasis on aeronautics and astronautics. This powerful research tool contains over 3.9 million records relevant to NASA's mission dating from 1915 to today. Approximately 275,000 documents are currently available in full-text searchable PDF. The

NASA Aeronautics and Space Database is the first database NASA researchers should consult before starting a project.

Open Access to the database is available to anyone within the nasa.gov Internet domain. Registered users gain added benefits, including viewing limited distribution material and requesting that NASA documents not currently in full-text PDF be scanned and added to the database for viewing and downloading.

NASA Dryden employees now have access to the following EBSCO Publishing online service:

(1)- Science & Technology Collection

The *Science & Technology Collection* contains over 800 leading full text journals covering relevant aspects of the scientific and technical community. Topics include aeronautics, astrophysics, chemistry, computer technology, geology, aviation, physics, archaeology, and materials science. In addition to the full text, this database offers indexing and abstracts for nearly 1,600 publications.

(2)- Military and Government Collection

The *Military & Government Collection* is designed to offer current news pertaining to all branches of the military and government, this database offers a thorough collection of periodicals, academic journals, and other content pertinent to the increasing needs of those sites. This collection provides cover-to-cover full text for nearly 400 journals and periodicals and indexing and abstracts for more than 500 titles.

The **EBSCOHOST Research Database** link is accessible through the Dryden Research Library home page:

<http://www1.nasa.gov/centers/dryden/about/Organizations/TechPubs/Library/index.html>

Title lists for both collections are available on the EBSCOHOST site. Users may search for keywords within these holdings or access each collection separately and browse by subject or publications list.

Please direct any questions or comment regarding this new service to:

Barbara Rogers
Dryden Research Librarian

LIBRARY INVENTORY PROCESS: The Library has sent all inventory letters out but all materials haven't been returned. We would like those of you

who haven't returned all your materials to return the items. As soon as the materials are inventoried you may recheck the item out. In a few weeks we will be calling all patrons to remind them about their checked out materials. This process is very important to the library. Please return all materials as soon as possible. The library would like to finish this process. Thank you!

Reminder: PLEASE SIGN IN.

THANK YOU FOR YOUR ATTENTION IN THESE MATTERS.

New Materials received in August, 2005 at the Dryden Research Library:

Circulating Books

HD 31 .D7734 1980	Managing in Turbulent Times By: Peter F. Drucker
Q 115 .R57 2005 c.1	Risk and Exploration: Earth Sea and the Stars By: Steven J. Dick
QA 402.5 .P37 1982	Combinatorial Optimization: Algorithms and Complexity By: Christos H. Papdimitriou
QA 911.F55 V.1 1975	Finite Elements in Fluids – Volume 1 Viscous Flow and Hydrodynamics
QA 911 .F55 V.2 1975	Finite Elements in Fluids – Volume 2 Mathematical Foundations, Aerodynamics and Lubrication
QC 95 .M43 1973	The International System of Units: Physical Constants and Conversion Factors – 2 nd edition By: E. A. Mechtly
QD 516 .N279 1961	Experimental Methods in combustion Research, A Manual
RA 975.5 .C3 J65 1966	NASA Contributions to Cardiovascular Monitoring By: William J. Jones
T 173.8 .S53 1986	Significant NASA Inventions: Available for Licensing in Foreign Countries

TA 169 .F38 2000	Fault Tree Analysis
TA 169 .P76 2000	Probabilistic Risk Assessment
TA 658 .S41 1967	Structural Design Concepts; Some NASA Contributions By: L. Albert Scipio
TH 7694 .C56 1967	Contamination Control Principles
TK 3201 .U58 1963	Reliable Electrical Connections
TK 3351 U58 1968	Flat Conductor Cable Technology; A Report
TK 5981 .A86 1966	Magnetic Tape Recording Technology Survey By: Skipwith W. Athey, Ph.D.
TK 7870 .U4864 1975	Failure Analysis of Electronic Parts: Laboratory Methods
TK 7870.23 F25 2000	Failure Modes and Effects Analysis (FMEA): A Bibliography
TL 788 .N37 1982	NASA Publications Guide
TN 863 .C65 1965	Conference on Selected Technology for the Petroleum Industry
TS 277.B87 1967	NASA Contributions to Advanced Valve Technology: A Survey By: Louis C. Burmeister
TS 718 .P38 1968	Joining Ceramics and Graphite to Other Materials; A Report By: H. E. Pattee

TECHNICAL REPORTS OFFICE

Dryden Authors Reports Published in July and August, 2005

1. Haering, Edward A., Jr., James W. Smolka, James E. Murray, and Kenneth J. Plotkin, "Flight Demonstration Of Low Overpressure N-Wave Sonic Booms And Evanescent Waves," ISNA Paper no. 185. To be presented at the 17th International Symposium on Nonlinear Acoustics, International Sonic Boom Forum, Pennsylvania State University, State College, PA, July 21–22, 2005 (LB)
2. Whiteman, Donald E., Lisa M. Valencia, and Richard B. Birr, *Space-Based Telemetry and Range Safety Project Ku-Band and Ka-Band Phased Array Antenna*, NASA/TM-2005-212872, July 2005.
3. Whiteman, Donald E., Lisa M. Valencia, and Richard B. Birr, "Ku-Band and Ka-Band Phased Array Antenna for the Space-Based Telemetry and Range Safety Project," ICSSC-2005 Paper no. I000074. To be presented at the 23rd AIAA International Communications Satellite Systems Conference (ICSSC-2005), Sept. 25–28, 2005, Rome, Italy.
4. Thompson, Peter M., Ph.D., David H. Klyde, Edward N. Bachelder, Ph.D., and Theodore J. Rosenthal, *On-Line Loss of Control Detection Using Wavelets*, NASA/CR-2005-212873, July 2005.
5. Bui, Trong, James E. Murray, Charles E. Rogers, Scott Bartel, Anthony Cesaroni, and Mike Dennett, "Flight Research of an Aerospike Nozzle Using High-Power Solid Rockets," AIAA-2005-3797. To be presented at the 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, July 10-13, 2005, Tucson Convention Center, Tucson, Arizona.
6. Lux-Baumann, Jessica and Darryl A. Burkes, "Hyper-X (X-43A) Flight Test Range Operations Overview." (Uploaded to ITC website 6/02/05.) To be presented at the International Telemetry Conference, Las Vegas, Nevada, October 24–27, 2005.
7. Ko, William L., Leslie Gong, Robert D. Quinn, and Larry Hudson, *Hypothetical Reentry Heat Transfer and Thermal Buckling Analyses of a Generic Space Plane Body Flap*, NASA/TP-2005-212864, July 2005. **(ITAR-Restricted)**
8. Stoliker, Patrick C., Brad Flick, and Everlyn Cruciani, *2003 Research Engineering Annual Report*, NASA/TM-2005-212874, July 2005.

9. Brenner, Martin J. and Chad Prazenica, "Aeroelastic Flight Data Analysis with the Hilbert-Huang Algorithm," AIAA-2005-5917. To be presented at AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, CA, August 15–18, 2005.
10. Jones, Daniel S., Ronald J. Ray, and Paul Phillips, *Rehabilitation of the Rocket Vehicle Integration Test Stand at Edwards Air Force Base*, NASA/TM-2005-212863, August 2005.
11. Cumming, Stephen B., and Corey G. Diebler, "Active Aeroelastic Wing Aerodynamic Model Development and Validation for a Modified F/A-18A," AIAA-2005-6312. To be presented at the AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, CA, August 15–18, 2005.
12. Allen, Michael J., Andrew M. Lizotte, Ryan P. Dibley, and Robert Clarke, "Loads Model Development and Analysis for the F/A-18 Active Aeroelastic Wing Airplane," AIAA-2005-6313. To be presented at the AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, CA, August 15–18, 2005.
13. Clarke, Robert, Michael J. Allen, Ryan P. Dibley, Joseph Gera, and John Hodgkinson, "Flight Test of the F/A-18 Active Aeroelastic Wing Airplane," AIAA-2005-6316. To be presented at the AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, CA, August 15–18, 2005.
14. Dibley, Ryan, Michael Allen, Robert Clarke, Joseph Gera, and John Hodgkinson, "Development and Testing of Control Laws for the Active Aeroelastic Wing Program," AIAA-2005-6314. To be presented at the AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, CA, August 15–18, 2005.
15. Lokos, William A., Ned J. Lindsley, Rick Stauf, and Andrew Lizotte, "Shock Location Dominated Transonic Flight Loads on the Active Aeroelastic Wing," AIAA-2005-6315. To be presented at the AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, CA, August 15–18, 2005.
16. Whiteman, Donald E., Lisa M. Valencia, and James C. Simpson, "Space-Based Range Safety and Future Space Range Applications," IAASS conference paper. To be presented at the First International Association for the Advancement of Space Safety Conference, Nice, France, October 25–27, 2005.
17. Whiteman, Donald E., Lisa M. Valencia, and James C. Simpson, *Space-Based Range Safety and Future Space Range Applications*, NASA/TM-2005-213662, August 2005.

18. Clarke, Robert, Michael J. Allen, Ryan P. Dibley, Joseph Gera, and John Hodgkinson, *Flight Test of the F/A-18 Active Aeroelastic Wing Airplane*, NASA/TM-2005-213664, August 2005.

The NASA Dryden Research Library gives Library Tours and Orientation. They will be twice a month on Friday afternoons and take 30 minutes to an hour. This is available for Dryden employees or staff that would like more information on the Research Library services. A tour of the library facilities will be given, with handouts about library services. There will be demonstrations on searching several databases accessible from the Research Library website, including AIAA, Science Direct, ASAP, DTRS, etc. You can bring information on topics you would like to search. Please call Barbara Rogers at ext. 3702 to schedule and appointment.