

Subject Index

Aircraft Technology, Conventional, STOL/VTOL

Aerodynamics

- Flat Spin of Axisymmetric Bodies in the Critical Reynolds Number Region A87-090
 Theoretical Analysis of Aircraft Afterbody Flow A87-085
 Aerodynamic Effects of Probe-Induced Flow Separation on Bluff Bodies at Transonic Mach Numbers A87-061
 Definition of an Entry Research Vehicle A87-050
 Aerothermodynamic Environment about a Highly Swept Wing Leading Edge A87-039
 Drag Reduction on a Bluff Body at Yaw Angles to 30 Degrees A87-032
 Inlets for Waveriders Derived from Elliptic-Cone Stream Surfaces A87-004
 Drag Predictions for Projectiles and Finned Bodies in Incompressible Flow A87-003

Configuration Design

- Definition of an Entry Research Vehicle A87-050
 Drag Reduction on a Bluff Body at Yaw Angles to 30 Degrees A87-032

Handling Qualities, Stability and Control

- Unsteady Embedded Newton-Busemann Flow Theory A86-024

Testing, Flight and Ground

- Vortex Unsteadiness on Slender Bodies at High Incidence A87-060

Vibration

- Comparison of Normal Eigenmodes Calculation Methods Based on Identified Complex Eigenmodes A87-010

Energy

Cryogenics

- Development of a High-Performance Cryogenic Radiator with V-Groove Radiation Shields A87-037
 System Implications of Aperture-Shade Design for the SIRTf Observatory A87-029
 Proposed Mechanistic Model to Simulate Transfer Line Cool-Down Process Using Liquid Helium A87-022

Microwaves

- 30-cm Electron Cyclotron Plasma Generator A87-077

Photovoltaic Power

- Theory of Plasma Contactors for Electrodynamic Tethered Satellite Systems A87-045

Solar Power Satellites

- Numerical Analysis of Interaction of a High-Voltage Solar Array with Ionospheric Plasma A87-087

- Theory of Plasma Contactors for Electrodynamic Tethered Satellite Systems A87-045

Fluid Dynamics

Boundary-Layer Stability and Transition

- Computer Graphic Visualization of Orbiter Lower Surface Boundary-Layer Transition A87-021

Computational Methods

- Shock-Capturing Technique for Hypersonic, Chemically Relaxing Flows A87-083
 Multiple-Zone Strategy for Supersonic Missiles A87-069
 Addressing the Hypersonic Simulation Problem A87-062
 Application of Axisymmetric Analog for Calculating Heating in Three-Dimensional Flows A87-057
 A Godunov Method for Supersonic Tactical Missiles A87-006

Hydrodynamics

- Interface Stability in a Slowly Rotating Low-Gravity Tank A87-043

Jets, Wakes, and Viscid-Inviscid Flow Interactions

- Spacecraft Contamination from Scarfed Nozzle Exhausts A87-091
 Theoretical Analysis of Aircraft Afterbody Flow A87-085
 Computations of Supersonic Flow over a Missile Afterbody Containing an Exhaust Jet A87-072
 Aerodynamic Effects of Probe-Induced Flow Separation on Bluff Bodies at Transonic Mach Numbers A87-061
 Vortex Unsteadiness on Slender Bodies at High Incidence A87-060

Multiphase Flows

- Proposed Mechanistic Model to Simulate Transfer Line Cool-Down Process Using Liquid Helium A87-022

Nonsteady Aerodynamics

- Prediction of the Nonlinear Aerodynamic Characteristics of Maneuvering Missiles A87-071
 Vortex Unsteadiness on Slender Bodies at High Incidence A87-060
 Unsteady Embedded Newton-Busemann Flow Theory A86-024

Nozzle and Channel Flow

- Spacecraft Contamination from Scarfed Nozzle Exhausts A87-091
 Experimental Validation of a Performance Model for Scarfed Nozzles A87-082

Plasmadynamics and MHD

- Numerical Analysis of Interaction of a High-Voltage Solar Array with Ionospheric Plasma A87-087
 Theory of Plasma Contactors Used in the Ionosphere A87-046

- Plasma Electron Collection Through Biased Slits in a Dielectric A87-012

Radiatively Coupled Flows and Heat Transfer

- Evaluation of Rocket Plume Signature Uncertainties A87-092

Rarefied Flows

- Spacecraft Contamination from Scarfed Nozzle Exhausts A87-091
 Orbital Acceleration Research Experiment A87-086

Reactive Flows

- Shock-Capturing Technique for Hypersonic, Chemically Relaxing Flows A87-083

Shock Waves and Detonations

- Shock-Capturing Technique for Hypersonic, Chemically Relaxing Flows A87-083

Subsonic Flow

- Prediction of the Nonlinear Aerodynamic Characteristics of Maneuvering Missiles A87-071
 Drag Predictions for Projectiles and Finned Bodies in Incompressible Flow A87-003

Supersonic and Hypersonic Flow

- Computations of Supersonic Flow over a Missile Afterbody Containing an Exhaust Jet A87-072
 Computed and Experimental Surface Pressure and Heating on 70-Deg Sphere Cones A87-070
 Multiple-Zone Strategy for Supersonic Missiles A87-069
 Hypersonic Aerodynamics of Nonaxisymmetric Boattailed Bodies A87-033
 High-Speed Aerodynamics of Several Blunt-Cone Configurations A87-024
 Computer Graphic Visualization of Orbiter Lower Surface Boundary-Layer Transition A87-021
 A Godunov Method for Supersonic Tactical Missiles A87-006
 Inlets for Waveriders Derived from Elliptic-Cone Stream Surfaces A87-004
 Unsteady Embedded Newton-Busemann Flow Theory A86-024

Wave Motion and Sloshing

- Slosh Dynamics in a Toroidal Tank A87-089
 Interface Stability in a Slowly Rotating Low-Gravity Tank A87-043
 A Model for Nonlinear Rotary Slosh in Propellant Tanks A87-030

Interdisciplinary Topics

Analytical and Numerical Methods

- Assessment of Two Fast Aerodynamic Codes for Guided Projectiles A87-058
 Re-Entry Thermal/Structural Finite-Element Modeling/Analysis of Shuttle Wing Configurations A87-020

Astrodynamics

- Inadequacy of Single-Impulse Transfers for Path Constrained Rendezvous A87-051

Atmospheric and Space Sciences

- Spacecraft Glow A87-095
Results From a Series of Tethered Rocket Experiments A87-078
Record Charging Events from Applied Technology Satellite 6 A87-066
Radiation Environment Models and the Atmospheric Cutoff A87-052
Neutralization of Beam-Emitting Spacecraft by Plasma Injection A87-042
System Implications of Aperture-Shade Design for the SIRTf Observatory A87-029
Potential Modulation on the SCATHA Spacecraft A87-027
Studying Space Plasmas From a Lunar Base A87-011

Celestial Mechanics

- Inadequacy of Single-Impulse Transfers for Path Constrained Rendezvous A87-051
Path-Constrained Rendezvous: Necessary and Sufficient Conditions A86-085

Computer Communications, Information Processing and Software

- Digital Group Demodulation System for Multiple PSK Carriers A87-094

Computer Science

- Automating Software Fault Tolerance A87-013

Computer Software

- Radiation Environment Models and the Atmospheric Cutoff A87-052
Transient Thermal Analysis for Electronic Packages A87-035
Automating Software Fault Tolerance A87-013

Lasers and Laser Applications

- Laser Satellite Constellations for Strategic Defense--An Analytic Model A87-080

Numerical Analysis

- Thermal/Structural Dynamic Analysis via a Transform-Method-Based Finite-Element Approach A87-041
Comparison of Normal Eigenmodes Calculation Methods Based on Identified Complex Eigenmodes A87-010
Deployment Analysis of the Olympus Astromast and Comparison with Test Measurements A87-009

Research Facilities and Instrumentation

- Translational Energy Dependence of the Reaction of Atomic Oxygen with Polyimide Films A87-079

Satellite Communication Systems (including Terrestrial Stations)

- Digital Group Demodulation System for Multiple PSK Carriers A87-094

Sensor Systems

- Orbital Acceleration Research Experiment A87-086

Launch Vehicle and Missile (LV/M) Technology**Aerodynamics**

- Flat Spin of Axisymmetric Bodies in the Critical Reynolds Number Region A87-090
Computations of Supersonic Flow over a Missile Afterbody Containing an Exhaust Jet A87-072
Prediction of the Nonlinear Aerodynamic Characteristics of Maneuvering Missiles A87-071
Multiple-Zone Strategy for Supersonic Missiles A87-069
Threshold-Determining Mechanisms for Discharges in High-Voltage Solar Arrays A87-067
Aerodynamic Effects of Probe-Induced Flow Separation on Bluff Bodies at Transonic Mach Numbers A87-061
Assessment of Two Fast Aerodynamic Codes for Guided Projectiles A87-058
Supersonic Aerodynamics of Spinning Tubular Bodies A87-040
Hypersonic Aerodynamics of Nonaxisymmetric Boattailed Bodies A87-033
Influence of Muzzle Brakes upon the Trajectory of Fin-Stabilized Projectiles A87-031
Drag Predictions for Projectiles and Finned Bodies in Incompressible Flow A87-003
Development of a Handbook for Astrobee F Flight-Performance Predictions A87-001

Configurational Design

- Supersonic Aerodynamics of Spinning Tubular Bodies A87-040
Drag Reduction on a Bluff Body at Yaw Angles to 30 Degrees A87-032
A Godunov Method for Supersonic Tactical Missiles A87-006

Dynamics and Control

- Performance Evaluation of an Entry Research Vehicle A87-084

Guidance

- High-Performance Missile Synthesis with Trajectory and Propulsion System Optimization A87-093

Launch Vehicle Systems

- Capture-Ejector Satellites A87-055
Influence of Muzzle Brakes upon the Trajectory of Fin-Stabilized Projectiles A87-031

Missile Systems

- High-Performance Missile Synthesis with Trajectory and Propulsion System Optimization A87-093
Hypersonic Aerodynamics of Nonaxisymmetric Boattailed Bodies A87-033

Propulsion and Propellant Systems

- High-Performance Missile Synthesis with Trajectory and Propulsion System Optimization A87-093
Slosh Dynamics in a Toroidal Tank A87-089
Experimental Validation of a Performance Model for Scarfed Nozzles A87-082
Chemical Kinetic Performance Losses for a Hydrogen Laser Thermal Thruster A87-068

- Some Aspects of Space Propulsion with Extraterrestrial Resources A87-044

Simulation

- Influence of Muzzle Brakes upon the Trajectory of Fin-Stabilized Projectiles A87-031

Sounding Rocket Systems

- Development of a Handbook for Astrobee F Flight-Performance Predictions A87-001

Structural Design (including Loads)

- Design Nomograms for Metallic Rocket Motor Cases Reinforced with a Viscoelastic Fiber Overwind A87-073
Rocket Plume Impingement Heat Transfer on Plane Surfaces A87-056

Testing, Flight and Ground

- Modal Test/Analysis Correlation for the Centaur G Prime Launch Vehicle A87-075

Trajectories and Tracking Systems

- Development of a Handbook for Astrobee F Flight-Performance Predictions A87-001

Vibration

- Modal Test/Analysis Correlation for the Centaur G Prime Launch Vehicle A87-075

Propulsion**Electric and Advanced Space Propulsion**

- High-Energy Orbit Refueling for Orbital Transfer Vehicles A87-088
30-cm Electron Cyclotron Plasma Generator A87-007

Solid and Hybrid Rocket Engines

- Experimental Validation of a Performance Model for Scarfed Nozzles A87-082
Design Nomograms for Metallic Rocket Motor Cases Reinforced with a Viscoelastic Fiber Overwind A87-073

Spacecraft Technology**Configurational and Structural Design (including Loads)**

- Alternative Methods to Fold/Deploy Tetrahedral or Pentahedral Truss Platforms A87-034
Potential Modulation on the SCATHA Spacecraft A87-027
Deployment Analysis of the Olympus Astromast and Comparison with Test Measurements A87-009

Dynamics and Control

- Verification of Large Beam-Type Space Structures A87-081
Dynamic Analysis and Experiment Methods for a Generic Space Station Model A87-049
Microgravity Environment of the Material Science Double Rack on Spacelab-1 A87-048
Control Laws for Optimal Spacecraft Navigation A87-007

Earth-Orbital Trajectories

- High-Energy Orbit Refueling for Orbital Transfer Vehicles A87-088
 Capture-Ejector Satellites A87-055
 Control Laws for Optimal Spacecraft Navigation A87-007

Electric Power

- Results From the Vehicle Charging and Potential Experiment on STS-3 A87-026
 Plasma Electron Collection Through Biased Slits in a Dielectric A87-012

Entry Vehicle Aerodynamic Heating

- Application of Axisymmetric Analog for Calculating Heating in Three-Dimensional Flows A87-057
 Aerothermodynamic Heating and Performance Analysis of a High-Lift Aeromaneuvering AOTV Concept A87-038

Entry Vehicle Aerodynamics

- Orbital Acceleration Research Experiment A87-086
 Computed and Experimental Surface Pressure and Heating on 70-Deg Sphere Cones A87-070
 Addressing the Hypersonic Simulation Problem A87-062
 High-Speed Aerodynamics of Several Blunt-Cone Configurations A87-024
 Hypersonic Aerodynamics for an Entry Research Vehicle A87-018

Entry Vehicle Configuration Design

- Aerothermodynamic Heating and Performance Analysis of a High-Lift Aeromaneuvering AOTV Concept A87-038

Entry Vehicle Dynamics and Control

- Performance Evaluation of an Entry Research Vehicle A87-084

Entry Vehicle Guidance

- Shuttle Entry Air Data System Preflight Testing and Analysis A87-005

Entry Vehicle Mission Studies and Flight Mechanics

- Aerothermodynamic Heating and Performance Analysis of a High-Lift Aeromaneuvering AOTV Concept A87-038

Entry Vehicle Testing, Flight and Ground

- Addressing the Hypersonic Simulation Problem A87-062
 High-Speed Aerodynamics of Several Blunt-Cone Configurations A87-024
 Shuttle Entry Air Data System Preflight Testing and Analysis A87-005

Extra-Vehicular Activity

- Path-Constrained Rendezvous: Necessary and Sufficient Conditions A86-085

Habitability, Crew Training, and Life Support

- Results From the Vehicle Charging and Potential Experiment on STS-3 A87-026

Meteoroid and Radiation Protection

- Optimization Study of Electron-Bremsstrahlung Shielding for Manned Spacecraft A87-028

Mission Analysis

- High-Energy Orbit Refueling for Orbital Transfer Vehicles A87-088
 Capture-Ejector Satellites A87-055
 Microgravity Environment of the Material Science Double Rack on Spacelab-1 A87-048
 Path-Constrained Rendezvous: Necessary and Sufficient Conditions A86-085

Navigation, Guidance, and Flight-Path Control

- Control Laws for Optimal Spacecraft Navigation A87-007

Propulsion Systems Integration

- Slosh Dynamics in a Toroidal Tank A87-089

Signatures and Tracking

- Evaluation of Rocket Plume Signature Uncertainties A87-092
 Infrared Emission from NO_2 and NO Desorbed from Spacecraft Surfaces A87-025

Simulation

- Microgravity Environment of the Material Science Double Rack on Spacelab-1 A87-048
 Modeling of Environmentally Induced Transients within Satellites A87-047

Space Medicine (Including Weightlessness, Radiation Effects, Psychology, etc.)

- Optimization Study of Electron-Bremsstrahlung Shielding for Manned Spacecraft A87-028

Systems

- Modeling of Environmentally Induced Transients within Satellites A87-047
 Results From the Vehicle Charging and Potential Experiment on STS-3 A87-026

Temperature Control

- Self-Shadowing Effects on the Thermal-Structural Response of Orbiting Trusses A87-063
 Transient Thermal Analysis for Electronic Packages A87-035
 Effects of Specularly Reflected Radiation on Spacecraft Temperatures and Thermal Gradients A87-023
 Thermal Control Systems for Spacecraft Instrumentation A87-002

Testing, Flight and Ground

- Verification of Large Beam-Type Space Structures A87-081
 Dynamic Analysis and Experiment Methods for a Generic Space Station Model A87-049
 Material Damping of Simple Structures in a Simulated Space Environment A86-049

Structural Mechanics and Materials**Materials, Properties of**

- Translational Energy Dependence of the Reaction of Atomic Oxygen with Polyimide Films A87-079
 Potential Modulation on the SCATHA Spacecraft A87-027

- Material Damping of Simple Structures in a Simulated Space Environment A86-049

Structural Composite Materials

- Finite-Element Model for the Thermoelastic Analysis of Large Composite Space Structures A87-076
 Experimental Buckling of Cylindrical Composite Panels with Eccentrically Located Circular Delaminations A87-064

Structural Design

- Integrated Structural Analysis for Rapid Design Support A87-074
 Design Nomograms for Metallic Rocket Motor Cases Reinforced with a Viscoelastic Fiber Overwind A87-073
 Alternative Methods to Fold/Deploy Tetrahedral or Pentahedral Truss Platforms A87-034

Structural Dynamics

- Verification of Large Beam-Type Space Structures A87-081
 BUNVIS-RG: Exact Frame Buckling and Vibration Program, with Repetitive Geometry and Substructuring A87-065
 Dynamic Analysis and Experiment Methods for a Generic Space Station Model A87-049
 Thermal/Structural Dynamic Analysis via a Transform-Method-Based Finite-Element Approach A87-041
 Spacecraft Structural Model Improvement by Modal Test Results A87-014
 Comparison of Normal Eigenmodes Calculation Methods Based on Identified Complex Eigenmodes A87-010
 Evaluation of Spacecraft Modal Test Methods A87-008
 Material Damping of Simple Structures in a Simulated Space Environment A86-049

Structural Stability

- BUNVIS-RG: Exact Frame Buckling and Vibration Program, with Repetitive Geometry and Substructuring A87-065
 Experimental Buckling of Cylindrical Composite Panels with Eccentrically Located Circular Delaminations A87-064
 Subsonic Aerodynamics of Rectangular Parallelepiped Shapes of Fineness Ratio of One-Half A87-059

Structural Statics

- BUNVIS-RG: Exact Frame Buckling and Vibration Program, with Repetitive Geometry and Substructuring A87-065
 Deployment Analysis of the Olympus Astromast and Comparison with Test Measurements A87-009

Thermal Stresses

- Finite-Element Model for the Thermoelastic Analysis of Large Composite Space Structures A87-076
 Self-Shadowing Effects on the Thermal-Structural Response of Orbiting Trusses A87-063

Thermophysics and Thermochemistry**Experimental Methods of Diagnostics**

- Infrared Emission from NO_2 and NO Desorbed from Spacecraft Surfaces A87-025

Heat Pipes

Review of Cryogenic Heat Pipes in Spacecraft Applications A87-019

Radiation and Radiative Heat Transfer

Finite-Element Model for the Thermoelastic Analysis of Large Composite Space Structures A87-076

Effects of Specularly Reflected Radiation on Spacecraft Temperatures and Thermal Gradients A87-023

Radiatively Coupled Flows and Heat Transfer

Evaluation of Rocket Plume Signature Uncertainties A87-092

Thermal Control

Development of a High-Performance Cry-

ogenic Radiator with V-Groove Radiation Shields A87-037

Review of Cryogenic Heat Pipes in Spacecraft Applications A87-019

Thermal Control Systems for Spacecraft Instrumentation A87-002

Thermal Modeling and Analysis

Self-Shadowing Effects on the Thermal-Structural Response of Orbiting Trusses A87-063

Thermal/Structural Dynamic Analysis via a Transform-Method-Based Finite-Element Approach A87-041

Thermal Design of the ACCESS Erectable Space Truss A87-036

Transient Thermal Analysis for Electronic Packages A87-035

System Implications of Aperture-Shade Design for the SIRTf Observatory A87-029

Effects of Specularly Reflected Radiation on

Spacecraft Temperatures and Thermal Gradients A87-023

Proposed Mechanistic Model to Simulate Transfer Line Cool-Down Process Using Liquid Helium A87-022

Re-Entry Thermal/Structural Finite-Element Modeling/Analysis of Shuttle Wing Configurations A87-020

Review of Cryogenic Heat Pipes in Spacecraft Applications A87-019

Shuttle Entry Air Data System Preflight Testing and Analysis A87-005

Thermochemistry and Chemical Kinetics

Spacecraft Glow A87-095

Translational Energy Dependence of the Reaction of Atomic Oxygen with Polyimide Films A87-079

Infrared Emission from NO₂ and NO Desorbed from Spacecraft Surfaces A87-025

Author Index

- Abrous, A., A87-023
 Aggson, T., A87-027
 Agnone, A. M., A87-033
 Allen, D. H., A87-076
 Amirkabirian, I., A87-039
 Anderson, M. S., A87-065
 Andrews, A. E., A87-085
 Arnold, G. S., A87-079
 Ash, R., A87-044
 Atwell, W., A87-052
 Baltakis, F. P., A87-006
 Banks, P. M., A87-026, A87-078
 Barbay, G. J., A87-047
 Bard, S., A87-037
 Barnea, G., A87-028
 Barrett, J. L., A87-025
 Belvin, W. K., A87-049
 Berger, M. J., A87-028
 Bertin, J. J., A87-039
 Best, J. T., A87-062
 Beyers, M. E., A87-059
 Blanchard, R. C., A87-086
 Boraas, S., A87-091
 Bradley, O. H., Jr., A87-036
 Brandon, F. J., A87-031
 Briggs, M. M., A87-093
 Brooks, W. F., A87-029
 Brown, K., A87-083
 Brown, K. G., A87-038
 Brunner, O., A87-009
 Bush, R. I., A87-026
 Carruth, M. R., Jr., A87-012
 Cascarano, F. M., A87-079
 Chacko, M. J., A87-035
 Chen, J., A87-008, A87-075
 Chen, J.-C., A87-014
 Cheng, V. H. L., A87-093
 Compagna, G. L., A87-019
 Craven, P. D., A87-027
 Croley, D., A87-027
 Cunningham, J. A., A87-005
 Cunningham, M. J., A87-018, A87-084
 Davies, C. B., A87-038
 Davis, V. A., A87-067
 Deiwert, G. S., A87-085
 DeJarnette, F. R., A87-057
 Dexter, C. E., A87-068
 Dowler, W., A87-044
 Dunn, B. P., A87-088
 Eberhardt, S., A87-083
 Edberg, D. L., A86-049
 Edighoffer, H. H., A87-049
 Eiden, M., A87-009
 Eldred, C. H., A87-055
 Emery, A. F., A87-023
 Ericsson, L. E., A86-024, A87-060, A87-090
 Fennell, J., A87-027
 Fortini, A., A87-089
 Foss, R. A., A87-036
 Fox, J. C., A87-086
 Freeman, D. C., A87-050
 French, J., A87-044
 Fuller, C. R., A87-074
 Gallegos, J. J., A87-005
 Gans, R. F., A87-043
 Garba, J. A., A87-014
 Goede, H., A87-077
 Goodman, W. L., A87-032
 Griffith, B. J., A87-062
 Groves, A., A87-073
 Hagan, J. C., A87-059
 Haisler, W. E., A87-076
 Hamacher, H., A87-048
 Hamilton, H. H., A87-057
 Hamilton, H. H., II, A87-070
 Hardy, A. C., A87-052
 Hartung, L. C., A87-021
 Hastings, D. E., A87-046
 Haupt, B. F., A87-061
 Hemdan, H. T., A87-004
 Hendrix, M. K., A87-086
 Hones, E. W., Jr., A87-011
 Horban, B., A87-064
 Howard, F. G., A87-032
 Hui, W. H., A86-024
 Intrieri, P. F., A87-024
 Jettmar, R. U., A87-006
 Jischke, M. C., A87-004
 Jones, M. R., A87-047
 Jongeward, G. A., A87-067
 Kana, D. D., A87-030
 Katz, I., A87-045, A87-067
 Kawashima, N., A87-042, A87-078
 Kind, R. J., A87-040
 Kirk, D. B., A87-024
 Kittel, P., A87-022
 Koenig, K., A87-061
 Kofsky, I. L., A87-025
 Konradi, A., A87-052
 Kuninaka, H., A87-087
 Kuriki, K., A87-042, A87-087
 Lallement, G., A87-010
 Lambi, M. A., A87-041
 Lee, J. H., A87-022, A87-029
 Lesieutre, D. J., A87-071
 Lesieutre, G. A., A86-049
 Leslie, F. W., A87-043
 Lilley, J. S., A87-082
 Lin, C. A., A87-093
 Lucero, E. F., A87-059
 Lutz, J. D., A87-076
 Maa, S., A87-029
 MacConochie, I. O., A87-055
 Mahaney, J., A87-063
 Majors, B. M., A87-062
 Mani, L., A87-035
 Margetson, J., A87-073
 Martin, F. M., A87-006
 Martin, J. A., A87-055
 Maus, J. R., A87-062
 Mayer, E., A87-056
 McCay, T. D., A87-068
 Mendenhall, M. R., A87-071
 Menees, G. P., A87-038
 Menon, P. K. A., A87-093
 Merbold, U., A87-048
 Meserole, J. S., A87-089
 Mezines, S. A., A87-039
 Mikhail, A. G., A87-058
 Milton, D. F., A87-080
 Naftel, J. C., A87-050, A87-084
 Nakahashi, K., A87-085
 Namiki, J., A87-094
 Nelson, H. F., A87-092
 Ng, Y. S., A87-022
 Nicholson, J. Y., A87-086
 Norman, I., A87-005
 Obayashi, T., A87-042, A87-078
 Oberkamp, W. L., A87-003
 Ohnawa, T., A87-094
 Olsen, R. C., A87-027, A87-066
 Onoda, J., A87-034
 Oyama, K. I., A87-078
 Palazotto, A., A87-064
 Papazian, H. A., A87-095
 Parks, D. E., A87-045, A87-067
 Parmentola, J. A., A87-080
 Peplinski, D. R., A87-079
 Peretti, L. F., A87-014
 Perkins, S. C., Jr., A87-071
 Peterson, G. P., A87-002, A87-019
 Politis, E., A87-040
 Powell, R. W., A87-050, A87-084
 Prakasam, B., A87-033
 Prickett, R., A87-056
 Priolo, F. J., A87-006, A87-069
 Raitt, W. J., A87-026, A87-078
 Ramohalli, K., A87-044
 Reasoner, D. L., A87-042
 Roberts, W. T., A87-042
 Rochelle, W. C., A87-005
 Rose, T., A87-075
 Sahu, J., A87-072
 Sasaki, S., A87-042, A87-078
 Schlingloff, H., A87-007
 Schmidt, E. M., A87-031
 Seltzer, S. M., A87-028
 Shaker, F., A87-075
 Shih, C., A87-081
 Shukla, K. N., A87-035
 Soileau, K. M., A86-085, A87-051
 Solomon, J. M., A87-069
 Spyrakos, C. C., A87-041
 Stanley, P., A87-073
 Stavrinidis, C., A87-009
 Stern, S. A., A86-085, A87-051
 Stevens, N. J., A87-047
 Tamma, K. K., A87-020, A87-041
 Thomas, D. J., A87-086
 Thornton, E. A., A87-020, A87-063
 Throckmorton, D. A., A87-021
 Ting, P. C., A87-005
 Tong, B., A86-024
 Trubert, M., A87-075
 Viswanathan, R., A87-047
 Wada, B., A87-075
 Wardlaw, A. B., Jr., A87-006, A87-069
 Watanabe, Y., A87-078
 Weilmuenster, K. J., A87-057, A87-070
 White, A. B., A87-026, A87-078
 Wild, C., A87-013
 Williams, F. W., A87-065
 Williamson, P. R., A87-026, A87-042
 Wilson, J. F., A87-038
 Wolf, R. S., A87-001
 Wolfe, W. P., A87-003
 Wong, D. G., A87-074
 Wurster, K. E., A87-050
 Yanagisawa, M., A87-042
 Zhang, Q., A87-010