2004 Journal of Guidance, Control, and Dynamics Index

How to Use the Index

In the Subject Index, pages 1109–1112, each technical paper is listed under a maximum of three appropriate headings. Note the locating number in boldface type preceding each paper title, and use that number to find the paper in the Chronological Index. The Author Index, page 1113, lists all authors associated with a given technical paper. The locating numbers are identical to those in the Subject Index. The Chronological Index, pages 1114–1119, also lists all papers by their locating numbers. This listing contains titles, authors and their affiliations, and volume, issue number, and page where the paper appeared. It also gives the AIAA paper number, if any, on which the article was based. The book review index is listed on page 1119. Comments, Replies, and Errata are listed directly beneath the paper to which they refer. If the paper to which they refer was published prior to 2004, that paper also will appear in both the Subject and Chronological Indexes. Authors of Comments also are listed in the Author Index.

Subject Index

AIRCRAFT TECHNOLOGY, CONVENTIONAL, STOL/VTOL

Aerodynamics

G04-044 Nanosatellite Attitude Stabilization Using Passive Aerodynamics and Active Magnetic Torquing

Aeroelasticity and Aeroservoelasticity

G04-004 Control of a Nonlinear Wing Section Using Leading- and Trailing-Edge Surfaces G04-099 Aeroelasticity of Time-Delayed Feedback Control of Two-Dimensional Supersonic Lifting Surfaces

G04-078 Computation of Controllability Regions for Unstable Aircraft Dynamics

Air Transportation

G04-092 New Approach for Modeling, Analysis, and Control of Air Traffic Flow

Communication and Air Traffic Control

G04-092 New Approach for Modeling, Analysis, and Control of Air Traffic Flow

Deceleration Systems

G04-002 Synthesis of Optimal Control and Flight Testing of an Autonomous Circular Parachute

Flight Control Integration

G04-019 Flight Control Century: Triumphs of the Systems Approach

Flight Mechanics

G04-110 Singular Perturbation Analysis of Optimal Glide

G04-003 Flight-Test Evaluation of Stability Augmentation Steering System for Aircraft Ground Handling **G04-108** Linear Theory of a Rotating Internal Part Projectile Configuration in Atmospheric Flight

G04-126 Retargeting Dynamics of a Linear Tethered Interferometer

Performance

G04-110 Singular Perturbation Analysis of Optimal Glide

Rotorcraft

G04-028 Dynamics and Stability of an Autorotating Rotor/Wing Unmanned Aircraft

Simulation

G04-126 Retargeting Dynamics of a Linear Tethered Interferometer

G04-002 Synthesis of Optimal Control and Flight Testing of an Autonomous Circular Parachuta

G04-131 Nonminimal Kane's Impulse-Momentum Relations

G04-101 Time Simulations of the Response of Maneuvering Flexible Aircraft

Testing, Flight and Ground

G04-002 Synthesis of Optimal Control and Flight Testing of an Autonomous Circular Parachute

G04-001 Evolution, Revolution, and Challenges of Handling Qualities

ENERGY

Flywheels

G04-047 Singularity Analysis of Variable Speed Control Moment Gyros

G04-105 Integrated Power and Attitude Control with Spacecraft Flywheels and Control Moment Gyroscopes

GUIDANCE, CONTROL, AND DYNAMICS TECHNOLOGY

Aircraft Dynamics

G04-101 Time Simulations of the Response of Maneuvering Flexible Aircraft

G04-035 Approximate Analytical Criterion for Aircraft Wing Rock Onset

G04-038 Square Root Sigma Point Filtering for Real-Time, Nonlinear Estimation

G04-088 Unified Algebraic Approach to Approximation of Lateral-Directional Modes and Departure Criteria

G04-099 Aeroelasticity of Time-Delayed Feedback Control of Two-Dimensional Supersonic Lifting Surfaces

G04-074 Tuning of Observer-Based Controllers

Aircraft Guidance

G04-053 Adaptive Neural Network Inverse Controller for General Aviation Safety

Aircraft Stability and Control

G04-053 Adaptive Neural Network Inverse Controller for General Aviation Safety

G04-019 Flight Control Century: Triumphs of the Systems Approach

G04-099 Aeroelasticity of Time-Delayed Feedback Control of Two-Dimensional Supersonic Lifting Surfaces

G04-087 Gain-Scheduling Stability Issues Using Differential Inclusion and Fuzzy Systems

G04-078 Computation of Controllability Regions for Unstable Aircraft Dynamics

G04-089 Limit Cycles and Domain of Stability in Unsteady Aeroelastic System

G04-016 Partial Eigenstructure Assignment Approach for Robust Flight Control

G04-098 Adaptive Linear Parameter Varying Control Synthesis for Actuator Failure

G04-001 Evolution, Revolution, and Challenges of Handling Qualities

G04-035 Approximate Analytical Criterion for Aircraft Wing Rock Onset

G04-055 Aircraft Autopilot Analysis and Envelope Protection for Operation Under Icing Conditions

Artificial Intelligence

G04-036 Learning-Based Sensor Validation Scheme Within Flight Control Laws

Astrodynamics

G04-025 Nonlinear Control of Librational Motion of Tethered Satellites in Elliptic Orbits G04-060 Second-Order Equations for Rendezvous in a Circular Orbit

G04-065 Attitude Dynamics/Control of a Dual-BodySpacecraft with Variable-Speed Control Moment Gyros

G04-059 Mars and Mercury Missions Using Solar Sails and Solar Electric Propulsion

G04-020 History of Analytical Orbit Modeling in the U.S. Space Surveillance System

G04-126 Retargeting Dynamics of a Linear Tethered Interferometer

G04-124 Transit-Orbit Search for Planar Restricted Three-Body Problems with Perturbations

G04-018 Nonlinear Modelling of Spacecraft Relative Motion in the Configuration Space G04-135 Earth Escape by Ideal Sail and Solar-Photon Thrustor Spacecraft

Autonomous Vehicles

G04-112 Methods for Compensating for Control Allocator and Actuator Interactions

G04-049 Pseudospectral Knotting Methods for Solving Nonsmooth Optimal Control Problems G04-086 Guidance of Unmanned Air Vehicles Based on Fuzzy Sets and Fixed Waypoints

G04-038 Square Root Sigma Point Filtering for Real-Time, Nonlinear Estimation

G04-007 Decentralized Scheme for Spacecraft Formation Flying via the Virtual Structure Approach

G04-094 Human-Inspired Control Logic for Automated Maneuvering of Miniature Helicopter

G04-116 Test Results for Entry Guidance Methods for Space Vehicles

G04-043 Dual Controller Approach to Three-Dimensional Autonomous Formation Control

Computer Science

G04-096 Anytime Control Algorithm: Model Reduction Approach

Control System Design

G04-017 Linear System Input-Order Reduction by Hankel Norm Maximization

G04-016 Partial Eigenstructure Assignment Approach for Robust Flight Control

G04-015 Nonlinear Adaptive Control for Slewing Flexible Active Structures

G04-123 Dynamic Control Allocation Using Constrained Quadratic Programming

G04-074 Tuning of Observer-Based Controllers G04-078 Computation of Controllability Regions for Unstable Aircraft Dynamics

G04-076 Robust Tracking Control Design for Spacecraft Under Control Input Saturation

G04-003 Flight-Test Evaluation of Stability Augmentation Steering System for Aircraft Ground Handling **G04-005** Gain-Phase Margin Analysis of Pilot-Induced Oscillations for Limit-Cycle Prediction **G04-023** Adaptive Control Design for Nonaffine

G04-023 Adaptive Control Design for Nonaffine Models Arising in Flight Control

G04-121 Efficient Minimax Control Design for Prescribed Parameter Uncertainty

G04-043 Dual Controller Approach to Three-Dimensional Autonomous Formation Control

G04-105 Integrated Power and Attitude Control with Spacecraft Flywheels and Control Moment Gyroscopes

G04-093 Neural-Network-Based Design of Optimal Controllers for Nonlinear Systems

G04-094 Human-Inspired Control Logic for Automated Maneuvering of Miniature Helicopter

G04-114 New Nonlinear Control Technique for Ascent Phase of Reusable Launch Vehicles

G04-037 Application of Pseudospectral Methods for Receding Horizon Control

G04-065 Attitude Dynamics/Control of a Dual-BodySpacecraft with Variable-Speed Control Moment Gyros

G04-019 Flight Control Century: Triumphs of the Systems Approach

G04-057 mu Synthesis for a Small Commercial Aircraft: Design and Simulator Validation

Control System Effectors

G04-029 Singularity Analysis and Visualization for Single-Gimbal Control Moment Gyro Systems

G04-004 Control of a Nonlinear Wing Section Using Leading- and Trailing-Edge Surfaces

G04-100 Investigating The Role of Rate Limiting in Pilot-Induced Oscillations

G04-112 Methods for Compensating for Control Allocator and Actuator Interactions

Control Theory

G04-032 Jacobi Pseudospectral Method for Solving Optimal Control Problems

G04-049 Pseudospectral Knotting Methods for Solving Nonsmooth Optimal Control Problems

G04-087 Gain-Scheduling Stability Issues Using Differential Inclusion and Fuzzy Systems

G04-106 Periodic H2 Synthesis for Spacecraft Attitude Control with Magnetorquers

G04-016 Partial Eigenstructure Assignment Approach for Robust Flight Control

G04-017 Linear System Input-Order Reduction by Hankel Norm Maximization

G04-096 Anytime Control Algorithm: Model Reduction Approach

G04-098 Adaptive Linear Parameter Varying Control Synthesis for Actuator Failure

G04-005 Gain-Phase Margin Analysis of Pilot-Induced Oscillations for Limit-Cycle Prediction

G04-076 Robust Tracking Control Design for Spacecraft Under Control Input Saturation

G04-129 Circular Navigation Missile Guidance with Incomplete Information and Uncertain Autopilot Model

G04-125 Low Thrust Minimum-Fuel Orbital Transfer: A Homotopic Approach

G04-052 State-Space Approach to Computing Spacecraft Pointing Jitter

G04-050 Nonlinear Missile Autopilot Design with Theta-D Technique

G04-025 Nonlinear Control of Librational Motion of Tethered Satellites in Elliptic Orbits G04-132 Differentiator-Free Nonlinear Proportional-Integral Controllers for Rigid-Body Attitude Stabilization **G04-048** Augmenting Adaptive Approach to Control of Flexible Systems

G04-043 Dual Controller Approach to Three-Dimensional Autonomous Formation Control

Differential Games

G04-128 Genetic Algorithm Preprocessing for Numerical Solution of Differential Games Problems

G04-134 Trajectory Shaping in Linear Quadratic Pursuit-Evasion Games

Dynamics

G04-018 Nonlinear Modelling of Spacecraft Relative Motion in the Configuration Space

G04-131 Nonminimal Kane's Impulse-Momentum Relations

G04-011 Robust Vibration Suppression in Flexible Systems Using Infinite Impulse Response Digital Filters

G04-108 Linear Theory of a Rotating Internal Part Projectile Configuration in Atmospheric Flight

G04-065 Attitude Dynamics/Control of a Dual-BodySpacecraft with Variable-Speed Control Moment Gyros

G04-031 First-Order Analytical Solution for Spacecraft Motion About (433) Eros

Flight Displays

G04-013 Frenet-Based Algorithm for Trajectory Prediction

Flight Mechanics

G04-088 Unified Algebraic Approach to Approximation of Lateral-Directional Modes and Departure Criteria

G04-028 Dynamics and Stability of an Autorotating Rotor/Wing Unmanned Aircraft

G04-035 Approximate Analytical Criterion for Aircraft Wing Rock Onset

G04-100 Investigating The Role of Rate Limiting in Pilot-Induced Oscillations

G04-117 Unpowered Approach and Landing Guidance Using Trajectory Planning

G04-115 Dynamic Lateral Entry Guidance Logic

G04-114 New Nonlinear Control Technique for Ascent Phase of Reusable Launch Vehicles

Handling Qualities

G04-100 Investigating The Role of Rate Limiting in Pilot-Induced Oscillations

G04-003 Flight-Test Evaluation of Stability Augmentation Steering System for Aircraft Ground Handling

G04-001 Evolution, Revolution, and Challenges of Handling Qualities

Information Processing

G04-096 Anytime Control Algorithm: Model Reduction Approach

G04-041 Covariance Control for Sensor Management in Cluttered Tracking Environments

Intelligent Control

G04-087 Gain-Scheduling Stability Issues Using Differential Inclusion and Fuzzy Systems

G04-006 Optimization of Interplanetary Solar Sailcraft Trajectories Using Evolutionary Neurocontrol

G04-008 Rule-Based Cooperative Control of Optically Linked Model Spacecraft: Experimental Study

G04-116 Test Results for Entry Guidance Methods for Space Vehicles

G04-048 Augmenting Adaptive Approach to Control of Flexible Systems

G04-093 Neural-Network-Based Design of Optimal Controllers for Nonlinear Systems

G04-053 Adaptive Neural Network Inverse Controller for General Aviation Safety

Launch Vehicle Guidance and Control

G04-116 Test Results for Entry Guidance Methods for Space Vehicles

G04-114 New Nonlinear Control Technique for Ascent Phase of Reusable Launch Vehicles

G04-117 Unpowered Approach and Landing Guidance Using Trajectory Planning

G04-113 Generation of Launch Vehicle Abort Trajectories Using a Hybrid Optimization Method

G04-112 Methods for Compensating for Control Allocator and Actuator Interactions

G04-118 Integrated Adaptive Guidance and Control for Re-Entry Vehicles with Flight Test Results

Missile Dynamics

G04-012 Integrated Guidance and Control of Moving-Mass Actuated Kinetic Warheads

G04-108 Linear Theory of a Rotating Internal Part Projectile Configuration in Atmospheric Flight

G04-030 Miss Distance Error Analysis of Exoatmospheric Interceptors

Missile Guidance and Control

G04-030 Miss Distance Error Analysis of Exoatmospheric Interceptors

G04-022 Boost-Phase Identification of Theater Ballistic Missiles Using Radar Measurements

G04-111 Modern Explicit Guidance Law for High-Order Dynamics

G04-133 Lyapunov-Based Nonlinear Missile Guidance

G04-050 Nonlinear Missile Autopilot Design with Theta-D Technique

G04-119 Lambert Guidance Routine Designed To Match Position And Velocity of A Ballistic Target

G04-129 Circular Navigation Missile Guidance with Incomplete Information and Uncertain Autopilot Model

G04-012 Integrated Guidance and Control of Moving-Mass Actuated Kinetic Warheads

G04-130 Optimal Dual-Rate Digital Redesign with Application to Missile Control

G04-134 Trajectory Shaping in Linear Quadratic Pursuit-Evasion Games

Navigation

G04-086 Guidance of Unmanned Air Vehicles Based on Fuzzy Sets and Fixed Waypoints

G04-027 Precise Cassini Navigation During Solar Conjunctions Through Multifrequency Plasma Calibrations

G04-030 Miss Distance Error Analysis of Exoatmospheric Interceptors

G04-064 Extended Kalman Filtering for Satellite Orbital Attitude Estimation Based on Gibbs Vector

Optimization Techniques

G04-075 Simulated Annealing for Missile Optimization: Developing Method and Formulation Techniques

G04-113 Generation of Launch Vehicle Abort Trajectories Using a Hybrid Optimization Method

G04-121 Efficient Minimax Control Design for Prescribed Parameter Uncertainty

G04-128 Genetic Algorithm Preprocessing for Numerical Solution of Differential Games Problems

G04-106 Periodic H2 Synthesis for Spacecraft Attitude Control with Magnetorquers

G04-123 Dynamic Control Allocation Using Constrained Quadratic Programming

G04-122 Nonlinear Control Allocation Using Piecewise Linear Functions

G04-109 Method for Determination of Nonlinear Attainable Moment Sets

G04-049 Pseudospectral Knotting Methods for Solving Nonsmooth Optimal Control Problems G04-032 Jacobi Pseudospectral Method for Solving Optimal Control Problems

Pointing Systems

G04-052 State-Space Approach to Computing Spacecraft Pointing Jitter

G04-008 Rule-Based Cooperative Control of Optically Linked Model Spacecraft: Experimental Study

Redundancy Management

G04-109 Method for Determination of Nonlinear Attainable Moment Sets

G04-122 Nonlinear Control Allocation Using Piecewise Linear Functions

G04-123 Dynamic Control Allocation Using Constrained Quadratic Programming

G04-029 Singularity Analysis and Visualization for Single-Gimbal Control Moment Gyro Systems

Robotics

G04-063 Vehicle Motion Planning with Time-Varying Constraints

G04-011 Robust Vibration Suppression in Flexible Systems Using Infinite Impulse Response Digital Filters

Signal Processing

G04-129 Circular Navigation Missile Guidance with Incomplete Information and Uncertain Autopilot Model

G04-051 Optimal-REQUEST Algorithm for Attitude Determination

G04-054 Optimal State Estimation With Failed Sensor Discrimination and Identification

Spacecraft Dynamics

G04-105 Integrated Power and Attitude Control with Spacecraft Flywheels and Control Moment Gyroscopes

G04-044 Nanosatellite Attitude Stabilization Using Passive Aerodynamics and Active Magnetic Torquing

G04-132 Differentiator-Free Nonlinear Proportional-Integral Controllers for Rigid-Body Attitude Stabilization

G04-029 Singularity Analysis and Visualization for Single-Gimbal Control Moment Gyro Systems

G04-047 Singularity Analysis of Variable Speed Control Moment Gyros

G04-026 Global Magnetometer-Based Space-craft Attitude and Rate Estimation

G04-104 Control of a Rotating Variable-Length Tethered System

Spacecraft Guidance and Control

G04-076 Robust Tracking Control Design for Spacecraft Under Control Input Saturation

G04-009 Toward a Stellar Gyroscope for Spacecraft Attitude Determination

G04-027 Precise Cassini Navigation During Solar Conjunctions Through Multifrequency Plasma Calibrations

G04-007 Decentralized Scheme for Spacecraft Formation Flying via the Virtual Structure Approach

G04-047 Singularity Analysis of Variable Speed Control Moment Gyros

G04-052 State-Space Approach to Computing Spacecraft Pointing Jitter

G04-010 Interspacecraft Optical Communication and Navigation Using Modulating Retroreflectors

G04-106 Periodic H2 Synthesis for Spacecraft Attitude Control with Magnetorquers

G04-025 Nonlinear Control of Librational Motion of Tethered Satellites in Elliptic Orbits

G04-132 Differentiator-Free Nonlinear Proportional-Integral Controllers for Rigid-Body Attitude Stabilization

G04-115 Dynamic Lateral Entry Guidance Logic

G04-037 Application of Pseudospectral Methods for Receding Horizon Control

G04-060 Second-Order Equations for Rendezvous in a Circular Orbit

G04-044 Nanosatellite Attitude Stabilization Using Passive Aerodynamics and Active Magnetic Torquing

G04-093 Neural-Network-Based Design of Optimal Controllers for Nonlinear Systems

G04-051 Optimal-REQUEST Algorithm for Attitude Determination

State Estimation

G04-051 Optimal-REQUEST Algorithm for Attitude Determination

G04-054 Optimal State Estimation With Failed Sensor Discrimination and Identification

G04-022 Boost-Phase Identification of Theater Ballistic Missiles Using Radar Measurements

G04-064 Extended Kalman Filtering for Satellite Orbital Attitude Estimation Based on Gibbs Vector

G04-058 Simple Structure for a High Performance Three-Dimensional Tracking Filter

G04-014 Nonlinear Recursive Minimum Model Error Estimation

G04-026 Global Magnetometer-Based Space-craft Attitude and Rate Estimation

G04-038 Square Root Sigma Point Filtering for Real-Time, Nonlinear Estimation

Structural Control

G04-011 Robust Vibration Suppression in Flexible Systems Using Infinite Impulse Response Digital Filters

G04-048 Augmenting Adaptive Approach to Control of Flexible Systems

G04-101 Time Simulations of the Response of Maneuvering Flexible Aircraft

System Identification

G04-022 Boost-Phase Identification of Theater Ballistic Missiles Using Radar Measurements

G04-014 Nonlinear Recursive Minimum Model Error Estimation

G04-061 Sequential Computation of Total Least-Squares Parameter Estimates

Trajectory Optimization

G04-063 Vehicle Motion Planning with Time-Varying Constraints

G04-032 Jacobi Pseudospectral Method for Solving Optimal Control Problems

G04-118 Integrated Adaptive Guidance and Control for Re-Entry Vehicles with Flight Test Results

G04-135 Earth Escape by Ideal Sail and Solar-Photon Thrustor Spacecraft

G04-120 Trajectory Planning for Autonomous Aerospace Vehicles amid Known Obstacles and Conflicts

G04-042 Systematic Method for Constructing Earth-Mars Cyclers Using Free-Return Trajectories

G04-006 Optimization of Interplanetary Solar Sailcraft Trajectories Using Evolutionary Neurocontrol

G04-128 Genetic Algorithm Preprocessing for Numerical Solution of Differential Games Problems

G04-125 Low Thrust Minimum-Fuel Orbital Transfer: A Homotopic Approach

G04-111 Modern Explicit Guidance Law for High-Order Dynamics

G04-034 New, Fast Numerical Method for Solving Two-Point Boundary-Value Problems

G04-037 Application of Pseudospectral Methods for Receding Horizon Control

G04-059 Mars and Mercury Missions Using Solar Sails and Solar Electric Propulsion

G04-113 Generation of Launch Vehicle Abort Trajectories Using a Hybrid Optimization Method

G04-110 Singular Perturbation Analysis of Optimal Glide

G04-075 Simulated Annealing for Missile Optimization: Developing Method and Formulation Techniques

G04-119 Lambert Guidance Routine Designed To Match Position And Velocity of A Ballistic Target

UAVs

G04-094 Human-Inspired Control Logic for Automated Maneuvering of Miniature Helicopter

G04-028 Dynamics and Stability of an Autorotating Rotor/Wing Unmanned Aircraft

G04-086 Guidance of Unmanned Air Vehicles Based on Fuzzy Sets and Fixed Waypoints

G04-120 Trajectory Planning for Autonomous Aerospace Vehicles amid Known Obstacles and Conflicts

INTERDISCIPLINARY TOPICS

Analytical and Numerical Methods

G04-018 Nonlinear Modelling of Spacecraft Relative Motion in the Configuration Space

G04-061 Sequential Computation of Total Least-Squares Parameter Estimates

G04-031 First-Order Analytical Solution for Spacecraft Motion About (433) Eros

Atmospheric and Space Sciences

G04-055 Aircraft Autopilot Analysis and Envelope Protection for Operation Under Icing Conditions

Multidisciplinary Design Optimization

G04-033 Interferometric Observatories in Earth Orbit

G04-075 Simulated Annealing for Missile Optimization: Developing Method and Formulation Techniques

Safety

G04-055 Aircraft Autopilot Analysis and Envelope Protection for Operation Under Icing Conditions

Sensor Systems

G04-054 Optimal State Estimation With Failed Sensor Discrimination and Identification

LAUNCH VEHICLE AND MIS-SILE (LV/M) TECHNOLOGY

Missile Systems

G04-050 Nonlinear Missile Autopilot Design with Theta-D Technique

G04-012 Integrated Guidance and Control of Moving-Mass Actuated Kinetic Warheads

Simulation

G04-119 Lambert Guidance Routine Designed To Match Position And Velocity of A Ballistic Target

Trajectories and Tracking Systems

G04-058 Simple Structure for a High Performance Three-Dimensional Tracking Filter

SPACE TECHNOLOGY

Aerobraking Flight Mechanics

G04-115 Dynamic Lateral Entry Guidance Logic

Mission Design and Analysis

G04-033 Interferometric Observatories in Earth Orbit

G04-062 Optimal Interplanetary Trajectories Using Constant Radial Thrust and Gravitational

G04-124 Transit-Orbit Search for Planar Restricted Three-Body Problems with Perturbations

G04-042 Systematic Method for Constructing Earth-Mars Cyclers Using Free-Return Trajectories

Mission Trajectories (Earth and Interplanetary)

G04-042 Systematic Method for Constructing Earth-Mars Cyclers Using Free-Return Trajectories

G04-124 Transit-Orbit Search for Planar Restricted Three-Body Problems with Perturbations

G04-125 Low Thrust Minimum-Fuel Orbital Transfer: A Homotopic Approach

G04-062 Optimal Interplanetary Trajectories Using Constant Radial Thrust and Gravitational Assists

G04-118 Integrated Adaptive Guidance and Control for Re-Entry Vehicles with Flight Test Results

G04-135 Earth Escape by Ideal Sail and Solar-Photon Thrustor Spacecraft

G04-033 Interferometric Observatories in Earth Orbit

G04-059 Mars and Mercury Missions Using Solar Sails and Solar Electric Propulsion

Space Systems

G04-107 Libration Control of Flexible Tethers Using Electromagnetic Forces and Movable Attachment

G04-062 Optimal Interplanetary Trajectories Using Constant Radial Thrust and Gravitational Assists

Spacecraft Attitude Determination

G04-026 Global Magnetometer-Based Space-craft Attitude and Rate Estimation

G04-064 Extended Kalman Filtering for Satellite Orbital Attitude Estimation Based on Gibbs Vector

Spacecraft Communication

G04-027 Precise Cassini Navigation During Solar Conjunctions Through Multifrequency Plasma Calibrations

G04-010 Interspacecraft Optical Communication and Navigation Using Modulating Retroreflectors

Spacecraft Sensor Systems

G04-009 Toward a Stellar Gyroscope for Spacecraft Attitude Determination

STRUCTURAL MECHANICS AND MATERIALS

Aeroelasticity and Control

G04-004 Control of a Nonlinear Wing Section Using Leading- and Trailing-Edge Surfaces G04-089 Limit Cycles and Domain of Stability in Unsteady Aeroelastic System

Flexible and Active Structures

G04-074 Tuning of Observer-Based Controllers G04-015 Nonlinear Adaptive Control for Slewing Flexible Active Structures

G04-107 Libration Control of Flexible Tethers Using Electromagnetic Forces and Movable Attachment