

1. Record Nr.	UNINA9910457232603321
Titolo	Guidance and control - II [[electronic resource]] : a selection of technical papers based mainly on the American Institute of Aeronautics and Astronautics Guidance and Control Conference held at Cambridge, Massachusetts, August 12-14, 1963 // edited by Robert C. Langford, Charles J. Mundo
Pubbl/distr/stampa	New York, : Academic Press, 1964
ISBN	1-60086-487-2 1-60086-268-3
Descrizione fisica	1 online resource (1013 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 13
Altri autori (Persone)	LangfordRobert C MundoCharles J
Soggetti	Space vehicles - Guidance systems Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Cover""; ""Title""; ""Copyright""; ""The Guidance and Control Committee""; ""Preface""; ""Contents""; ""I. Active and Passive Attitude Control for Space Vehicles""; ""An Introduction to Section on Attitude Control""; ""Current Status of Progress in Attitude Control""; ""A System for Passive Gravity-Gradient Stabilization of Earth Satellites""; ""Theoretical and Practical Aspects of Solar Pressure Attitude Control for Interplanetary Spacecraft""; ""Control Moment Gyro Gravity Stabilization""; ""Applications of Gyro stabilizers to Satellite Attitude Control"" ""Integral Pulse Frequency On-Off Control""""A Time Optimal Attitude Control System Designed to Overcome Certain Sensor Imperfections""; ""Two-Pulse Attitude Control of an Asymmetric Spinning Satellite""; ""Bank Angle Control System for a Spinning Satellite""; ""Several Linear Stabilization and Reorientation Control System Configurations for a Rotating, Manned Orbital Space Station""; ""II. Inertial Guidance for Space Flight""; ""Drift of a Stable Platform Caused by Gyro Rotor Unbalance""; ""Stellar Alignment of a Gyroscopically Stabilized Platform during Free-Fall""

""Navigation and Guidance Systems Employing a Gimballess IMU""
Rigid Body Dynamics - Stable Platform Isolation Systems"";
""Interrogation of Spherical-Rotor Free Gyros""; ""III. Onboard
Techniques for Interplanetary Flight""; ""Background and Requirements
on Radar Sensors for Spacecraft""; ""Stellar Techniques for Midcourse
Navigation Guidance""; ""Infrared Horizon Sensor Techniques for Lunar
and Planetary Approaches""; ""Novel Solar System Compasses for
Interplanetary Flight""; ""IV. Manned Control of Space Vehicles""; ""Pilot-
Vehicle Control System Analysis""
""A Survey of the Development of Models for the Human Controller""
Some Predictive Characteristics of the Human Controller""; ""V. Deep
Space Guidance and Navigation""; ""Discussion of Guidance Policies for
Multiple-Impulse Correction of the Trajectory of a Spacecraft""; ""A
Class of Unified Explicit Methods for Steering Throttle able and Fixed-
Thrust Rockets""; ""New Investigations in the Field of Error
Propagation""; ""Theory of Error Compensation in Astro-Inertial
Guidance Systems for Low-Thrust Space Missions""; ""Statistical
Filtering of Space Navigation Measurements""
""VI. Rendezvous""""Survey of Rendezvous Progress""; ""Fuel
Optimization in Orbital Rendezvous""; ""Guidance System Complexity vs
Fuel Consumption for Midcourse Correction of Rendezvous"";
""Application of Pontryagin's Maximum Principle to the Lunar Orbit
Rendezvous Problem""; ""Guidance Dynamics for the Terminal Phase of
Rendezvous""; ""VII. Re-Entry and Landing""; ""A Look at the Re-Entry
Problem""; ""A Simple Re-Entry Guidance System""; ""A Minimum Fuel
Vertical Touchdown Lunar Landing Guidance Technique"";
""Contributors to Volume 13""
