

1. Record Nr.	UNINA9910827781303321
Titolo	Orbit-raising and maneuvering propulsion [[electronic resource]] : research status and needs // edited by Leonard H. Caveny
Pubbl/distr/stampa	New York, : American Institute of Aeronautics and Astronautics, c1984
ISBN	1-60086-563-1 1-60086-344-2
Descrizione fisica	1 online resource (594 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 89
Altri autori (Persone)	CavenyLeonard H
Disciplina	629.1 s 629.47/5
Soggetti	Space vehicles - Propulsion systems Orbital transfer (Space flight)
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 and index.
Nota di contenuto	<p>""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""List of Series Volumes""; ""Chapter I. Laser and Solar Driven Propulsion""; ""Power-Beaming Technology for Laser Propulsion""; ""Potential of Advanced Solar Thermal Propulsion""; ""Laser Radiation to Supply Energy for Propulsion""; ""Laser Energy Absorption in Gases: Research Problems""; ""Repetitively Pulsed Laser Propulsion: Needed Research""; ""Steady (Continuous Wave) Laser Propulsion: Research Areas""; ""Laser Thermal Propulsion""; ""Numerical Modeling of Laser Thermal Propulsion Flows""</p> <p>""Laser-Driven Repetitively-Pulsed MHD Generators: A Conceptual Study""""Chapter II. Continuous Operation Electric Thrusters""; ""A Comparison of Electric Propulsion Technologies for Orbit Transfer""; ""A Strategy for Electric Propulsion Development""; ""Theoretical Modeling of the Voltage Characteristics of MPD Devices""; ""Applied-Field Magnetoplasma-dynamic Thrusters for Orbit-Raising Missions""; ""Thrust for Interorbit Propulsion: A Question of Lifetime""; ""Electric Thruster Performance for Orbit-Raising and Maneuvering""</p> <p>""Electric Thruster Capabilities for Orbit-Raising and Maneuvering Missions""""Chapter III. Pulsed Electric Thrusters""; ""Metallic Induction Reaction Engine""; ""Plasma-Surface Interactions for Electromagnetic Propulsion""; ""Deflagration Plasma Thruster""; ""Configurations, Materials, and Performance Considerations for Railguns in Space</p>

Propulsion"; "Chapter IV. Nuclear Propulsion"; "Nuclear Reactor Sources for Space Prime Propulsion and Power"; "Nuclear Space Power Systems for Orbit-Raising and Maneuvering"; "Ultra-Performance Closed-Cycle Gas Core Reactors for Orbit Raising"
"Space Nuclear Multi-Mode Reactors""Particle Bed Reactors for Space Power and Propulsion"; "Rotating Bed Reactor: Research and Development Issues"; "Nuclear Electric Propulsion (NEP) Spacecraft Configuration Study"; "Chapter V. Advanced Chemical Propulsion"; "Advanced Liquid Propellant Systems for Chemical Propulsion"; "Author Index for Volume 89"
