

1. Record Nr.	UNISA996247885603316
Autore	Nasr Seyyed Hossein
Titolo	Science and civilization in Islam // by Seyyed Hossein Nasr ; with a preface by Giorgio de Santillana
Pubbl/distr/stampa	[S.l.] , : ABC International Group Chicago , : Distributed by KAZI Publications, c2001
ISBN	1-930637-15-2
Descrizione fisica	1 online resource (384 p.) : ill., map ;
Soggetti	Islam and science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. 355-362) and index.

2. Record Nr.	UNINA9910484479503321
Autore	Chai Runqi
Titolo	Design of Trajectory Optimization Approach for Space Maneuver Vehicle Skip Entry Problems // by Runqi Chai, Al Savvaris, Antonios Tsourdos, Senchun Chai
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020
ISBN	981-13-9845-3
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (216 pages) : illustrations. (some color)
Collana	Springer Aerospace Technology, , 1869-1749
Disciplina	629.41
Soggetti	Automatic control Aerospace engineering Astronautics Mathematical optimization Calculus of variations Control and Systems Theory Aerospace Technology and Astronautics Calculus of Variations and Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Overview of Trajectory Optimization Techniques -- Modelling of the Trajectory Optimization Problems -- Performance Analysis of Different Optimization Strategies -- Hybrid Optimization Methods with Enhanced Convergence Ability -- Multi-Objective Trajectory Optimization Problem -- Real-Time Optimal Guidance Strategies for Space Maneuver Vehicles -- Stochastic Trajectory Optimization Problems with Chance Constraints -- Appendix -- References -- Index.
Sommario/riassunto	This book explores the design of optimal trajectories for space maneuver vehicles (SMVs) using optimal control-based techniques. It begins with a comprehensive introduction to and overview of three main approaches to trajectory optimization, and subsequently focuses on the design of a novel hybrid optimization strategy that combines an initial guess generator with an improved gradient-based inner optimizer. Further, it highlights the development of multi-objective

spacecraft trajectory optimization problems, with a particular focus on multi-objective transcription methods and multi-objective evolutionary algorithms. In its final sections, the book studies spacecraft flight scenarios with noise-perturbed dynamics and probabilistic constraints, and designs and validates new chance-constrained optimal control frameworks. The comprehensive and systematic treatment of practical issues in spacecraft trajectory optimization is one of the book's major features, making it particularly suited for readers who are seeking practical solutions in spacecraft trajectory optimization. It offers a valuable asset for researchers, engineers, and graduate students in GNC systems, engineering optimization, applied optimal control theory, etc.
