

1. Record Nr.	UNINA9910780036603321
Autore	Johnson Stephen B. <1959->
Titolo	The secret of Apollo : systems management in American and European space programs / / Stephen B. Johnson
Pubbl/distr/stampa	Baltimore, : Johns Hopkins University Press, 2002
ISBN	0-8018-7618-4
Descrizione fisica	1 online resource (xvii, 290 pages) : illustrations
Collana	New series in NASA history
Disciplina	629.4/0973
Soggetti	Astronautics, Military - United States - Management Astronautics - United States - Management Astronautics, Military - Europe - Management Astronautics - Europe - Management
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	Contents; Illustrations; Preface and Acknowledgments; Abbreviations and Acronyms; Introduction: Management and the Control of Research and Development; Chapter 1 - Social and Technical Issues of Spaceflight; Chapter 2 - Creating Concurrency; Chapter 3 - From Concurrency to Systems Management; Chapter 4 - JPL's Journey from Missiles to Space; Chapter 5 - Organizing the Manned Space Program; Chapter 6 - Organizing ELDO for Failure; Chapter 7 - ESRO's American Bridge across the Management Gap; Chapter 8 - Coordination and Control of High-Tech Research and Development; Notes Essay on Sources Index
Sommario/riassunto	How does one go about organizing something as complicated as a strategic-missile or space-exploration program? Stephen B. Johnson here explores the answer -- systems management -- in a groundbreaking study that involves Air Force planners, scientists, technical specialists, and, eventually, bureaucrats. Taking a comparative approach, Johnson focuses on the theory, or intellectual history, of "systems engineering" as such, its origins in the Air Force's Cold War ICBM efforts, and its migration to not only NASA but the European Space Agency. Exploring the history and politics of aerospace development and weapons procurement, Johnson examines how

scientists and engineers created the systems management process to coordinate large-scale technology development, and how managers and military officers gained control of that process. "Those funding the race demanded results," Johnson explains. "In response, development organizations created what few expected and what even fewer wanted -- a bureaucracy for innovation. To begin to understand this apparent contradiction in terms, we must first understand the exacting nature of space technologies and the concerns of those who create them."

---