

1. Record Nr.	UNINA9910863130203321
Autore	Yang Hong
Titolo	Manned Spacecraft Technologies // by Hong Yang
Pubbl/distr/stampa	Springer Singapore, 2021 Singapore : , : Springer Singapore : , : Imprint : Springer, , 2021
ISBN	981-15-4898-6
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (370 pages) : illustrations
Collana	Space Science and Technologies, , 2730-6410
Altri autori (Persone)	YePeijian
Disciplina	929.374
Soggetti	Aerospace engineering Astronautics Automatic control Robotics Mechatronics Thermodynamics Heat engineering Heat - Transmission Mass transfer Aerospace Technology and Astronautics Control, Robotics, Mechatronics Engineering Thermodynamics, Heat and Mass Transfer
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Overall Technology of Manned Spacecraft -- General Technology of Cargo Ship -- Design Technology of Space Laboratory System -- Design Technology of Space Station System -- Manned Rendezvous and Docking Technology -- Manned Reentry and Return Technology -- Manned Landing and Recovery Technology -- Emergency Life-Saving Technology -- Technology of Orbital Propellant Refueling -- Technology of the Management and Control of the Combination -- Maintainability Technology of Manned Spacecraft -- Application Technology of Space Manipulator -- Technology of Manned Environmental Control and Life Support -- Technology of Extravehicular Activity.

This book offers essential information on China's human spacecraft technologies, reviewing their evolution from theoretical and engineering perspectives. It discusses topics such as the design of manned spaceships, cargo spacecraft, space laboratories, space stations and manned lunar and Mars detection spacecraft. It also addresses various key technologies, e.g. for manned rendezvous, docking and reentry. The book is chiefly intended for researchers, graduate students and professionals in the fields of aerospace engineering, control, electronics & electrical engineering, and related areas.
