Record Nr. UNINA9910720073403321 Handbook of Space Resources // edited by Viorel Badescu, Kris Zacny, **Titolo** Yoseph Bar-Cohen Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2023 **ISBN** 9783030979133 9783030979126 Edizione [1st ed. 2023.] 1 online resource (1201 pages) Descrizione fisica 605 Disciplina 622.0999 Aerospace engineering Soggetti **Astronautics** Solar system Planetary science Astronomy—Observations Aerospace Technology and Astronautics Space Physics Planetary Science Astronomy, Observations and Techniques Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Technologies for Planetary Exploration -- Mercury and Venus -- The Moon, a Steppingstone to Planetary ISRU -- Mars -- Asteroids and Comets -- Ocean Worlds -- Economics and Policies. Sommario/riassunto Earth has limited material and energy resources, while these resources are virtually unlimited in space. It is only a matter of time, before planetary resources are mined and used in-situ to sustain human and robotic exploration or returned to Earth for commercial gain. This book covers a number of aspects related to space resources. In particular, subjects related to mission concepts, exploration approaches, mining and extraction technologies, commercial potential, and regulatory

aspects of space resources are covered in detail. This book is therefore

a good resource for readers who seek background and deeper understanding of space resources related activities.