1. Record Nr. UNISA996511865103316 Autore Hollander Justin B. Titolo The first city on Mars: an urban planner's guide to settling the Red Planet / / Justin B. Hollander Cham, Switzerland: ,: Springer, , [2022] Pubbl/distr/stampa ©2022 **ISBN** 9783031075285 9783031075278 Edizione [1st ed. 2022.] Descrizione fisica 1 online resource (286 pages) Space Exploration, , 2731-541X Collana Disciplina 605 Soggetti Space colonies Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Chapter 1. Welcome to Mars -- Chapter 2. Learning from Earth's Colonization -- Chapter 3. Lessons from Six Decades of Space Exploration -- Chapter 4. Designing Mars for Humans: The First Principle -- Chapter 5. Transportation Dimensions -- Chapter 6. Residential, Commercial, and Industrial Dimensions -- Chapter 7, Non-Transportation Infrastructure Dimensions -- Chapter 8. Mars Planning Precedents -- Chapter 9. Other Off-World Planning Precedents --Chapter 10. Template for a Mars Colony -- Chapter 11. Conclusion. Hundreds of novels, films, and TV shows have speculated about what it Sommario/riassunto would be like for us Earthlings to build cities on Mars. To make it a reality, however, these dreamers are in sore need of additional conceptual tools in their belt—particularly, a rich knowledge of city planning and design. Enter award-winning author and Tufts University professor, Justin Hollander. In this book, he draws on his experience as an urban planner and researcher of human settlements to provide a thoughtful exploration of what a city on Mars might actually look like. Exploring the residential, commercial, industrial, and infrastructure elements of such an outpost, the book is able to paint a vivid picture of how a Martian community would function – the layout of its public spaces, the arrangement of its buildings, its transportation network,

and many more crucial aspects of daily life on another planet. Dr.

Hollander then brings all these lessons to life through his own rendered plan for "Aleph," one of many possible designs for the first city on Mars. Featuring a plethora of detailed, cutting-edge illustrations and blueprints for Martian settlements, this book at once inspires and grounds the adventurous spirit. It is a novel addition to the current planning underway to colonize the Red Planet, providing a rich review of how we have historically overcome challenging environments and what the broader lessons of urban planning can offer to the extraordinary challenge of building a permanent settlement on Mars. .