1. Record Nr. UNINA9910851989103321 Autore Evans Ben <1895-1988, > Titolo The Spacelab Story: Science Aboard the Shuttle // by Ben Evans Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2024 **ISBN** 9783031534492 Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (450 pages) Space Exploration, , 2731-541X Collana Disciplina 629.441 Soggetti Outer space - Exploration **Astronautics** Aerospace engineering Science - History Space Exploration and Astronautics Aerospace Technology and Astronautics History of Science Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Chapter 1. Unequal partners -- Chapter 2. A difficult path to First Nota di contenuto Flights -- Chapter 3. Verification Flight Test One -- Chapter 4. Verification Flight Test Two -- Chapter 5. Of monkeys, mice and men -- Chapter 6. Deutschland-Eins -- Chapter 7. Stargazers -- Chapter 8. Earthgazers -- Chapter 9. X-SAR-Crossed Lovers -- Chapter 10. Mission for Japan -- Chapter 11. Mission for Italy -- Chapter 12. In the absence of gravitas -- Chapter 13. The human factor. Sommario/riassunto Between 1983 and 1998, Spacelab provided NASA with a vital shortterm laboratory in space. Across more than a dozen missions, Spacelab's pressurized research modules and science pallets supported hundreds of experiments from the life to microgravity sciences, from Earth science to astrophysics and from materials processing to fluid dynamics. For the first time, The Spacelab Story sheds light on all the Spacelab missions that served as pathfinders for the eventual International Space Station, along with all the flights that never came to

be. The book chronicles over two decades of service and international partnership with Germany, Japan, Canada, Russia, the member-states

of the European Space Agency and others. The very same international co-operation that led to Spacelab's genesis also conspired to create its end. Science writer Ben Evans chronicles this tumultuous history, showing how, as tensions between the superpowers cooled in the 1990s and the Shuttle came to be increasingly used to fly joint missions to Mir, many Spacelab missions were delayed and eventually cancelled. This book is a must-read for anybody interested in the science conducted aboard the Shuttle, the experimental precursors of the ISS, and the international politics surrounding NASA's pioneering space endeavors.