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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 126 pages. OCLC Number: 55672724 Excerpt: . . . 2 Introduction The Space Shuttle and International Space Station provide a unique microgravity environment for research that is a critical part of NASAs mission to improve the quality of life on Earth, and to enable the health and safety of space explorers for long duration missions beyond our solar system. Such research falls under the purview of the Office of Biological and Physical Research (OBPR). In orbital spacecraft, like the Space Shuttle and the International Space Station, some of the effects of gravity are reduced, creating a weightless environment known as microgravity. The microgravity environment simplifies certain biological and physical properties and processes, allowing scientists to understand them better, and making them simpler to model. The advances from microgravity research result in advances in the fields of biomedical research, biotechnology, designer drugs, industrial applications, materials processes, environmental protection, and diagnostic tool development. This educators guide was designed to be used by a science educator and a technology educator in partnership. The technology educator can assign the building of the glovebox as a class project. The science educator would then use the glovebox to conduct the experiments contained in this guide. The activities were designed to supplement many curriculum topics by using the Space Shuttles Glovebox as a motivational tool to capture students interest. (A microgravity glovebox has nothing in common with the glove box of an automobile.) The glovebox is a piece of hardware that provides a sealed laboratory setting. Astronauts use glove inserts to operate the experiment inside this laboratory. Because this hardware is not discipline specific, many types of research can be done in it. As a result, the activities in this guide...



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