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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 90 pages. Original publisher: Washington, D. C. : National Aeronautics and Space Administration, 1984 OCLC Number: (OCoLC)70663034 Subject: Space medicine. Excerpt: . . . well-being of crewmembers, some measurement of crew health and performance, onboard storage of experimental specimens, and two-way real-time transmission of video and other data between orbit and Earth. As the Space Station evolves, other capabilities should be added, such as limited onboard sample processing and analysis capability. Also needed is the ability to modify and upgrade equipment for medical and experimental procedures, and provisions for the maintenance of simple plants and small animals for periods of 30 days to a year. Finally, a larger biological research facility should permit automatic or semi-automatic operation of plant and animal habitats. Crew visits will probably be required. An onboard centrifuge would provide pseudo-gravity for experimental controls and low-gravity experiments. Ground-based facilities required to support the in-flight studies include appropriate facilities for animal and plant holding. Data analysis and laboratory facilities will also be needed. In addition to aiding the study of the physiological effects of weightlessness, laboratory facilities will permit the development of advanced life support systems and controlled ecology life support systems (CELSS). Although the Station will require periodic resupply, many consumables may be regenerated on the Station, thereby saving the cost of some Shuttle flights. The Space Station will have a continuing program of technology and subsystem development to improve life support systems. A major problem for a CELSS is the recycling of metabolic waste to produce food and other consumables. Current efforts are...


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