Starlab: An Orbiting Space Technology Applications Research Laboratory

By National Aeronautics and Administration

Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.STARLAB is a 35-man orbiting Space Technology Applications and Research Laboratory preliminary design and a training exercise in the systems approach. The selected orbit is 308 n. mi. with a 69-degree inclination which enables coverage of 93 percent of the earth s surface. The onboard experiments utilize research and application laboratories with auxiliary supporting laboratories. A laser communication system with a 3000 megabits per second data rate, three synchronous communication satellites, and an earth-based administration function comprises the information management system. Emphasis is given to earth resources, chemistry, life/behavioral sciences, physics, materials and manufacturing, communication, navigation and traffic control, manned space flight engineering, and astronomy. Systems engineering, or the systems approach, is an accepted term to describe the multidisciplinary or interdisciplinary character of the systematic design of any large engineering system. It emphasizes and attempts to systematize, through the availability of modern techniques, the design of modern, complex, and multidisciplinary engineering systems. The term seems to have originated in the aerospace field where the complexity of modern aerospace systems demanded a systematically controlled approach to design to ensure...

Reviews

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