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Fundamentals of Satellite Communications, Part 1

Satellite communications involves four steps: An uplink Earth station or other ground equipment transmits the desired signal to the satellite. The satellite amplifies the incoming signal and changes the frequency. The satellite transmits the signal back to Earth. The ground

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equipment receives the signal.

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Satellite Link Delays Satellite to the surface of the Earth is 22,300 miles Two way transmission is 44,600 miles $C = \text{speed of light} = 186,282$ miles per second 239 milliseconds

Minimum delay Transmit and receive stations on the equator at the same longitude as >120 ms the satellite.

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A Primer on Using Satellites for Communications

4.Satellite system. A satellite communication system can be broadly divided into two segments, a ground segment and a space-

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segment. The space system includes Satellite. Satellite system consist of the following systems. Power supply: The primary electrical power for operating electronic equipment is obtained from solar cells.

Satellite and Mobile Communications Fundamentals

Satellite Link Delays. Satellite to the surface of the Earth is 22,300 miles Two way transmission is 44,600 miles $C = \text{speed of light} = 186,282$ miles per second 239 milliseconds Minimum delay Transmit and receive stations on the equator at the same longitude as the satellite.

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TutorialsWeb.com***

The satellite antenna beamwidth must correspond to the area of the earth to be

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illuminated. This determines the gain of the antenna. The earth station antenna must be able to select a particular geostationary satellite - the satellite spacing in the crowded parts of the geostation-ary orbit is about 2°, though there may also be frequency

ARTECH HOUSE U.K.: Satellite Communications Fundamentals

fundamentals of telecommunications by roger l. freeman. the satellite communication applications handbook by bruce r. elbert. transformer engineering: design, technology, and diagnostics by s.v. kulkarni, s.a. khaparde.

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principles of communication systems by herbert taub, donald schilling, goutam saha

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Satellite Communications Training

Fundamentals Course - Class Prerequisites The knowledge and skills that a learner must have before attending this training course are:

Technical background and general exposure to telecommunications networks.

Fundamentals of Satellite Communication

Fundamentals of Satellite Communications Part

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3 Modulation Techniques used in Satellite Communication Howard Hausman December, 2009 Fundamentals of Satellite Communications Part 3 Modulation Techniques used in Satellite Communication 1.

Satellite Communications Training Fundamentals - ENO INSTITUTE
Satellite communication systems use satellites to communicate between two remote terrestrial locations, a terrestrial location and a mobile station (aircraft, ship, land vehicles etc.) or two mobile stations. Uplink is a communication link from an Earth station to a satellite. Downlink is

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a communication link from a satellite to an Earth station.

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Satellite communications can only take place at certain frequencies Below few hundred MHz, will not penetrate ionosphere Above few ten's GHz, will not penetrate rain or atmosphere So carrier waves in these bands used; band names from radar world Lower range: "UHF", L, S-band Middle: C-band, X-band High: Ku, Ka-band, "EHF"

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Wired and Wireless Networks 14

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