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## **Fundamentals Of Satellite Communications Metcourses**

The telemetry, tracking, and command (TT&C) subsystem performs several routine functions aboard a spacecraft. the telemetry or "telemetering" function could be interpreted as "measurement at a distance". specifically, it refers to the over all

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operation of generating an electrical signal proportional to the quantity being measured, and encoding and transmitting this to a distant station, which for satellite is one of the earth stations, which for the satellite is one of the earth stations.

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GMU - ECE 739, Fall 2003 - Satellite Communications Class:  
Oct-06-2003 (C) Leila Z. Ribeiro, 2003 2 5 Modulation: Basic Principles (1) • Modulation is achieved by varying the amplitude, phase or frequency of a high frequency sinusoid

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and end-to-end control of today's advanced satellite solutions are resulting in greater use of satellite by corporations, governments and consumers.

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- Satellite systems can be deployed in 4-5 years, whereas terrestrial systems take longer
- One satellite can cover the

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same region that it would take multiple base stations of a terrestrial system to cover – Better for covering sparsely populated areas • Of course, satellite systems cost a lot

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Satellite operators demands that the signal entering the satellite have a fixed Power Spectral density Prevents signals from interfering with each other Satellite users expectation of signal availability varies Internet users have been conditioned to wait Super bowl viewers must see pictures without a lapse Rain is the most common adverse effect on

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and Launching Systems 13 1.1.5 Integration with Terrestrial Wired and Wireless Networks 14

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The fundamental connection is the radio link between satellite and earth station, which is covered in detail. Basic design of the satellite and earth station are covered to identify primary elements of each and to compare alternatives which have been and continue to be employed in real systems.

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Satellite communications form the bedrock of modern connectivity. Satellite technology is used extensively by global enterprises, news broadcasters and government services, which require timely and reliable access to data anywhere in the world to carry out essential operations and reporting, especially in

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remote environments and challenging applications.

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Satellite communications play a vital role in the global telecommunications system. Fundamentals of Satellite Communication Approximately 2, artificial satellites orbiting Earth relay analog and digital signals carrying voice, video, and



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data to and from one or many locations worldwide.

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The authors, who both worked at least 20 years for Raytheon, explain the fundamentals of many disciplines related to the satellite communications field: gravity and orbital mechanics, the geostationary satellite and its geometry, electricity and magnetism leading to electromagnetic theory, antennas, electrical noise that competes with signals, the effect of the atmosphere and ionosphere on signals and noise, earth station systems, analog and digital communication techniques, and video ...

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