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The telemetry, tracking, and command (TT&C) subsystem performs several routine functions aboard a spacecraft. the telemetry or "telemetering" function

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could be interpreted as "measurement at a distance". specifically, it refers to the over all 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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Introduction: Satellite

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Training course you will
learn both the
technology and
applications of
satellites ranging from
the early Sputnik to
today's advanced nano-
satellites with optical
laser links.

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GMU - ECE 739, Fall
2003 - Satellite

Communications Class:

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Z. Ribeiro, 2003 2 5

Modulation: Basic

Principles (1) •

Modulation is achieved

by varying the

amplitude, phase or

frequency of a high

frequency sinusoid

Satellite

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in greater use of
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corporations,
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consumers.

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Fundamentals of
Satellite

Communications Part 3
Modulation Techniques
used in Satellite

Communication 1.

Early Communication

2. Simultaneously

Transmitting Multiple

Signals 3. Types of

Modulation 4. Digital

Modulation -Quantizing

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Data 5. Digital Modulation Techniques –CW (Constant Amplitude) 6. Quadrature Amplitude Modulation (QAM) 7. Recovering Packet Errors 8.

Fundamentals of Satellite Communications Part 3

- Satellite systems can be deployed in 4-5 years, whereas terrestrial systems

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take longer • One satellite can cover the 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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Communications
Satellite ... -
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Satellite operators

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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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Communications**

Part 2 Link ...

Fundamentals of
Satellite Systems 1 1.1
Basic Characteristics of
Satellites 1 1.1.1
Advantages of Satellite
Communication 7 1.1.2
Use of Microwave
Frequencies 11 1.1.3
Digital Transmission,
Compression, and
Routing 12 1.1.4
Improved Space

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Fundamentals Of
Platforms and

Launching Systems 13

1.1.5 Integration with
Terrestrial Wired and

Wireless Networks 14

**Introduction to
Satellite
Communication 3rd
Edition**

The fundamental connection is the radio link between satellite and earth station, which is covered in detail. Basic design of the satellite and earth

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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

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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 remote environments and challenging applications.

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Communications Part 3
Modulation Techniques
used in Satellite

Communication 1.

Early Communication

2. Simultaneously

Transmitting Multiple

Signals 3. Types of

Modulation 4. Digital

Modulation -

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Quantizing Data 5.
Digital Modulation
Techniques – CW
(Constant Amplitude)
6. Quadrature
Amplitude Modulation
(QAM) 7.

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Fundamentals ...

Satellite

communications play a vital role in the global telecommunications system. Fundamentals

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of Satellite

Communication

Approximately 2,000 artificial satellites are orbiting Earth relay analog and digital signals carrying voice, video, and data to and from one or many locations worldwide.

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E-Book Fundamentals of Satellite Navigation Systems

The authors, who both worked at least 20 years for Raytheon, explain the

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Materials

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

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and noise, earth station systems, analog and digital communication techniques, and video ...

Satellite Communications Fundamentals / Edition 1 by Jules ...

This course will cover fundamentals of digital communications and networking. We will study the basics of information theory,

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sampling and quantization, coding, modulation, signal detection and system performance in the presence of noise.

Communication Systems Engineering | Aeronautics and ...

Fundamentals of
Satellite
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Link Analysis,
Transmission, Path
Loss, & Reception
Howard Hausman

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