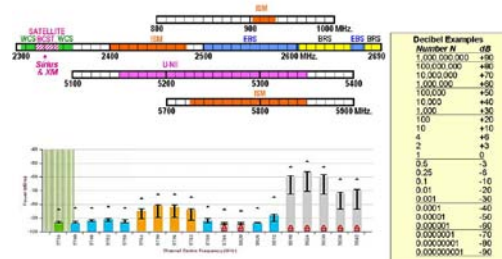
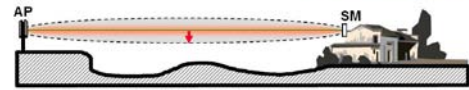


Course 111 – Introduction to Fixed Broadband Wireless Access

Scope

This two-day seminar presents an introduction to the use of commercially available microwave products to implement Fixed Broadband Wireless to business users and home subscribers, bypassing traditional wired DSL technologies. It focuses on design principles, network architecture selection, path design and site surveys, and general performance and capacity issues. Underlying technologies and principles are discussed. Motorola Canopy equipment offerings are examined.



Target Audience

Internet Service Providers and others who would like to deliver broadband service to Business and/or Home user and interested individuals and staff.

Course Presentation Setting and Methods

Classroom setting using computer projection with student workbooks.

Topical Outline

- Introduction to the Broadband Wireless Industry
- Technical Basis for Fixed Broadband Wireless Access
 - Signal Principles: Modulation and Bandwidth
 - Working In Decibels
 - TCP/IP appreciation
 - RF Propagation: outdoor and indoor propagation losses
 - Antenna Principles
- Broadband Wireless Equipment
 - Motorola's Canopy system
- Engineering the Broadband Wireless RF Environment
 - The Site Survey
- Traffic Engineering for Broadband Wireless
- Reference Material / Optional Topics

Prerequisites None

Course Documentation and Materials Student guide, Misc. supplies

Facilities and Hardware Requirements

Classroom suitable for student note-taking, a screen or other projection surface