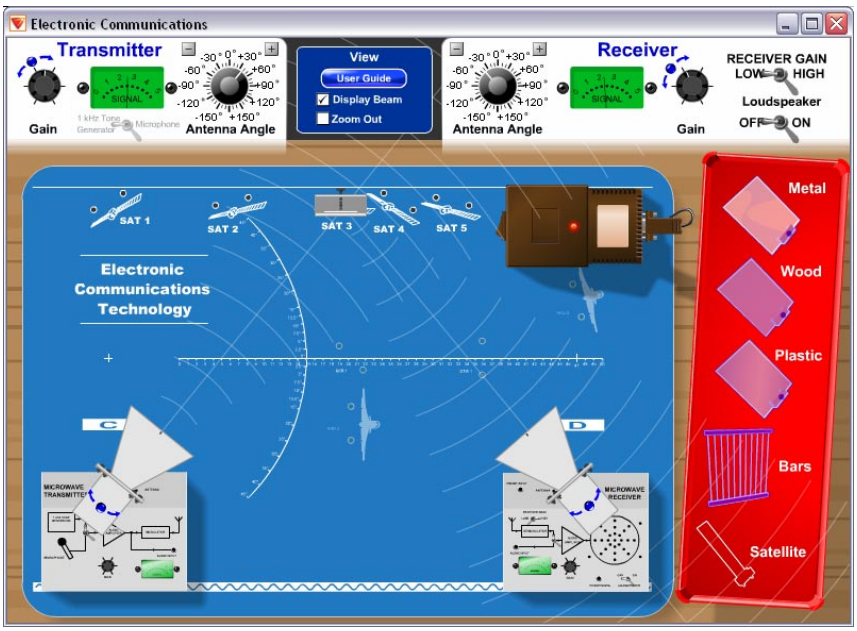
Virtual Microwave Trainer



This interactive simulator enables students to investigate microwave transmissions.

A transmitter and a receiver can be positioned and rotated and the effect on received signal strength observed.

Different types of material can be used to obstruct the signal and a satellite object can be positioned to reflect the signal.

Equipment

The simulator includes the following equipment:

- Transmitter
- Receiver
- Metal plate
- Wooden plate
- Plastic plate
- Bars
- Satellite

Functionality

The transmitter can be rotated 360 degrees and its signal strength can be varied using its gain control.

The receiver can be moved within the work environment and can also be rotated 360 degrees. The receiver can amplify the signal being received using its gain control.

A loudspeaker control switches on an audible tone with volume proportional to received signal strength.

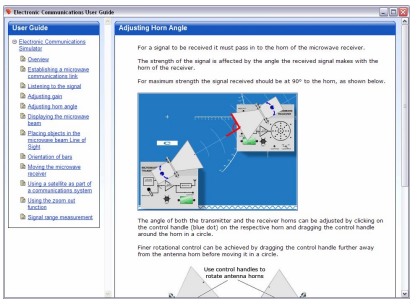
A beam overlay can be shown and hidden to help understand how distance and angle affect signal strength.

Objects can be placed in the line of sight of the beam to see how they affect signal strength. Objects include:

- Metal plate
- Wooden plate
- Plastic plate
- Bars (can be horizontal or vertical)

A satellite object can be positioned in one of five locations to allow investigation of reflected signals.

User Guide



The simulator includes a user guide, which explains how to setup a communications link. The guide also explains how to use the equipment to test how signal strength is affected by distance, angle, obstructions and reflections.

Minimum Computer Requirements

- Windows® 2000 or later
- 50 MB free hard disk space
- Flash Player v9 or later (supplied on CD)

Languages Supported

- English (US)
- English (GB)
- Spanish

Order as:

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