



Amitec Microwave Propagation Training System MPT10

Amitec Model MPT10 Microwave and Propagation Training System is a useful training system for the Laboratories. It helps student to learn Wave Properties and Propagation results.

Concepts of Reflection, Refraction, Polarization, Interference, Standing waves, Interferometer can be understood very easily. The setup is mainly consists of Microwave Transmitter, Microwave Receiver, Goniometer scale. Alongwith this setup lot of accessories are provided to perform different experiments. A user friendly manual is provided with this system to help student in performing the experiments and to understand the topic theoretically.

Amitec MPT10 Features

A Complete set for Transmission, Reception and Measurement of Microwave Power.

Digital displays are provided for relative strength measurement of microwave.

Accessories are provided in a carrying case.

Complete set of accessories for performing the experiments of Reflection, Refraction, polarization Interference etc.

Audio / Voice communication facility is provided. Provided with a detector probe for field detection.

E-Manual: Installation DVD for ease of Learning

Amitec MPT10 Technical Specifications

Frequency of Operation : 10 GHz (approx)
 Power of Transmission : 10 -15 mW
 Operating Voltage : 8 V (approx)
 Antennas for Transmission & Reception : Horn type
 Goniometer Scale : 0° - 360°
 Tone Generator : 1 KHz Frequency
 Transmitter and Receiver arm length : 50 cm each
 Power Display : Digital, Relative Measurements

Accessories

- I Microwave Transmitter
- I Microwave Receiver
- I Transmitter Arm
- I Receiver Arm
- I Goniometer Main Unit
- I Detector Probe
- I Prism
- I Metal Plates of different dimensions
- I Partial Reflectors
- I Din Connectors Cables
- I Metal Plate holder
- I Polarization Grill
- I Prism Stand
- I Microphone

List of Experiments

- To understand the Working of Transmitter and Receiver and setup.
- To study the Standing Waves and Measure the Wavelength of Microwave.
- To study the Reflection in Microwaves.
- To study the Refraction in Microwaves (Snell's Law).
- To study the Polarization in Microwaves.
- To study the double slit Interference in Microwaves.
- To study the Fabry-Perot Interferometer.
- To study the Voice Communication.

Specifications are subject to change due to constant innovation in technology. Accessories shown are not part of standard equipment.

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