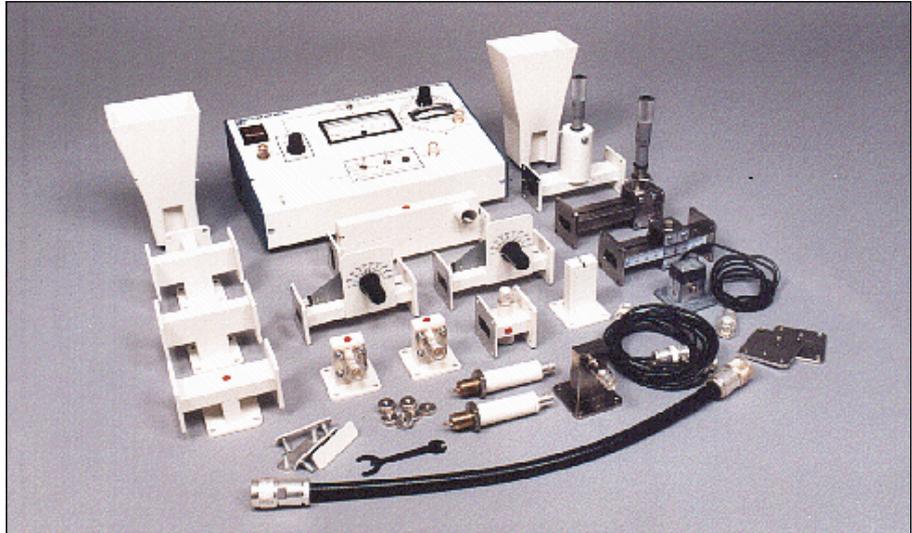


Microwave, Microstrip & Fibre-Optics

Microwave Trainer MWT530

This training system allows the user to investigate the principles of microwave transmission systems, such as those used in radar and communications links. It is a precision made bench top system which uses standard type WG16 waveguide components to illustrate the essential elements within this field of study. It is completely self-contained and provides the means to allow students to carry out realistic practical work.

The system features a modulated solid state X-band microwave source, a power measuring bolometer bridge and a meter which may be switched to monitor either a detector output or the supply current to the bridge. The trainer is also supplied with a dedicated protective carrying case.



Curriculum Coverage

- An outline of simple transmission line theory as an introduction to waveguide principles
- Measurement of frequency and wavelength
- Measurement of Voltage Standing Wave Ratio (VSWR)
- Measurement of microwave power
- Measurement of waveguide impedance
- Microwave tuners
- Detector characteristics
- The directional coupler
- Series and shunt tees
- Horn antennas - microwave propagation
- Waveguide to coaxial coupling
- Demonstration of doppler principles

Microstrip Trainer MST532

This Trainer allows the student to investigate the principles of microstrip technology.

It is a very high precision bench top system which uses up-to-date microstrip components to illustrate the essential principles of this field of study.

The trainer has been designed to be used with basic test equipment, such as a dual dc supply and a digital multimeter. Each VCO and detector comes supplied with a calibration curve chart.

The system comes complete with student manuals and a dedicated robust carrying case.



Curriculum Coverage

- Matched loads
- Bandpass filters
- Tuned stubs
- Wilkinson power divider
- Rat-Race hybrid coupler
- Ring resonator
- 3-port circulator
- Patch antennas
- Pin diode modulators

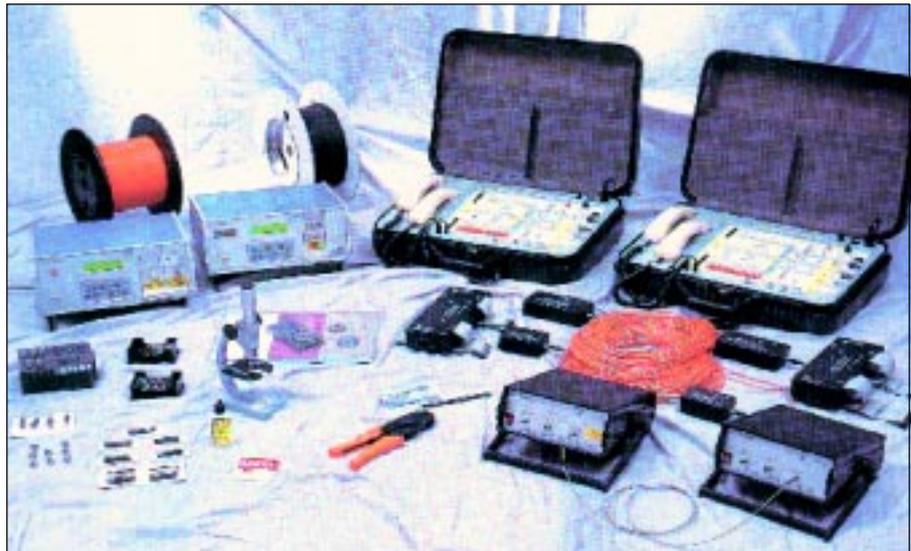
Telecommunications

Optical Fibre Laboratory Systems

Fibre-Optics has revolutionised the way the world communicates, bringing interactive multimedia communications to people across the world. Fibre-optic training has therefore become increasingly important to train the next generation of Engineers in concepts and practices. The systems supplied can be used for demonstration, training and experimentation and form the basis for more advanced student research. All systems are supplied with a comprehensive laboratory manual, containing theory and experimentation.

Features

- Each Fibre-optic system is configured to carry-out a series of structured experiments.
- Optical-fibre and Digital Communications Trainer demonstrates integrated voice/data communication link, TDM and Digital communication principles. It offers unlimited experimentation using on-kit circuitry and external interfaces, including an RS232 add-on.
- 650/850/1300nm LED Light Source with variable optical power output, continuous wave, external modulation, internal word and PRBS generation.
- Power Meter calibrated at 650, 850 and 1300nm with readout in dBm/microwatts.
- Links using glass-fibre - for experimentation and as interface modules for other digital circuitry.
- Connector and Slicing kits that provide hands-on training.
- Range of LED's, detectors, fibres, connectors, adaptors and receptacles - for custom-development of links and for study of fibre-optic devices and fibre-handling.



Curriculum Coverage

Basic Experiments

- Fibre-optic analogue links
- Digital link
- Losses in Optical-fibre
- Effect of EMI interference
- Numerical aperture measurement

Advanced Experiments

- Interfacing 8, 64 and 256kbps synchronous channels
- Asynchronous channel interfacing using oversampling
- Asynchronous channel interfacing using bit stuffing

OFT - Optical Fibre & Digital Communications Trainer

A powerful, versatile & cost effective kit used to train at basic level through to advanced concepts. the Trainer offers experiments covering:

- Principles of Fibre-optic communications
- Basics of digital baseband communications
- Advanced experimentation & development in fibre-optic digital communications

OFS - Fibre Optical Laboratory Systems

Designed to provide comprehensive training to students and all levels of scientific and technical personnel in digital communications and engineering aspects of fibre-optics. Topics covered include:

- Basics of Fibre-optics
- Analogue & Digital Fibre-optic links
- Fibre-optic devices
- Principles of Fibre-optics & Digital Communications

LAN-T Trainer

The Trainer is a laboratory system that supplements courses on Computer networks and LANs. It exposes users to networking concepts at the physical, MAC, network and transport layers through carefully designed series of experiments. The Trainer can also be used for projects involving many layers of the network hierarchy. Topics covered include:

- Observation and measurement
- Implementation
- Projects demonstrating real-world principles
 - Routing in a mesh WAN
 - Network management
 - Remote procedure calls
 - Talk program
 - File transfer program
 - Distributed database
 - A sample Web

For further information on these and other equipment in the Feedback range please contact

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