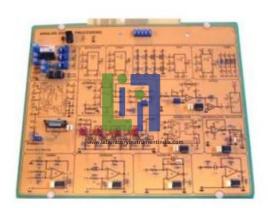


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Product Name :Analogue Signal Processing

Product Code: LBNY-0005-1900001



Description:

With this board the students can study the operating principle of analog communication systems and analog signal processing techniques such as multiplication, division, square root, power, logarithm, antilogarithm, attenuation, amplitude modulation and demodulation, non inverting adder, difference amplifier, integrator and shunt. The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering.

Theoretical Topics:

Characteristics and key specifications for fixed and step attenuators

Audio attenuators

Forms of amplitude modulation

Simultaneous multiplication and division

Analog computation of powers and roots

Familiarization with analogue computing technique

Basic and advanced linear operations

Amplitude modulation and demodulation methods

Square root operation

Attenuator overview

Log ratio computation

Antilog computation

Technical Specification:

Circuit Blocks of Analogue Signal Processing:

Realtime Analog computational unit

Reference power supply unit

Log ratio operation with thermic compensation

Antilog operation with thermic compensation

Non inverting summing block

Difference amplifier

One quadrant multiplication unit

Root circuit

Power circuit

Integrator

Attenuator

Amplitude modulation and demodulation.



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