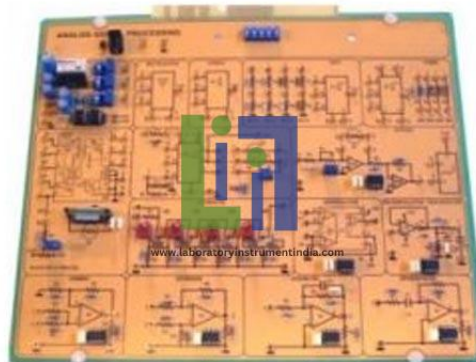




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Product Name :
Analogue Signal Processing

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.



Laboratory Instrument India