



33529 Electronics could be taught straight from a book if students were able to visualise the function of an experimental circuit. Unfortunately this is rarely the case and until now it has been necessary to laboriously assemble every experiment to be examined.

The assembly of each circuit has no didactic value whatsoever other than to provide the student with a circuit on which to perform the experiment. Now, this can be dramatically improved with the 33529 Analog Overlay Overlay Learning System.

FEATURES

The 33529 Analog Overlay Overlay Learning System. allows the student to assemble even the most involved circuit in less than five minutes, thus leaving enough time for fruitful experimentation.

The 33529 Analog Overlay Overlay Learning System features wiring templates which fit over a breadboard and guide students to an immediate and rational experimental layout whilst the experiment book relates to the traditional circuit diagram.

No add-ons are required. All the necessary equipment including a stand ardised set of components is included. The thoroughly researched courseware was designed by educators with over 20 years practical teaching experience, with the aim to enforce theory and not confuse students. The professionally produced manuals are referenced to the most widely used theory books, and the schematic diagrams, component listings, and experiment procedure are clearly listed. Each experiment was tested for typical student reaction prior to final editing.

No prerequisites are demanded other than basic arithmetic. The emphasis is on an instrumental understanding rather than a mathematical one. The continuous hands-on exposure ensures the transfer of marketable technological skills in the minimum amount of time.

OBJECTS:

- 01 Semiconductor Silicon Diodes in DC Circuits
- 02 Light Emitting Diodes in DC Circuits
- 03 Silicon Diodes in AC Circuits: Half Wave Rectification
- 04 Silicon Diodes in AC Circuits: Full Wave Rectification
- 05 The Use of a Diode Bridge in DC Circuits
- 06 The Use of a Diode Bridge in AC Circuits
- 07 Filtering and Regulation of a Pulsating DC Voltage
- 08 An Experimental Power Supply using a "PI" Filter
- 09 Voltage Multiplying using diodes & Capacitors : Voltage Doubling
- 10 DC Current Gain of a Common Emitter TransistorConfiguration
- 11 The Common Emitter as an AC Amplifying Stage
- 12 Cascaded Stages of Amplification
- 13 Class ASingles-Ended Loudspeaker Driven Audio Amplifier
- 14 The Class APush-Pull Audio Amplifier

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,

Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com

Website: www.tesca.in





- 15 Complementary-Symmetrical Push-Pull Output Circuits
- 16 The Field Effect Transistor: The Common-Source Amplifier
- 17 Oscillator Circuits: The Zero-Phase Shift Oscillator
- 18 Oscillator Circuits: The Phase-Shift Oscillator
- 19 Oscillator Circuits: The Armstrong Oscillator
- 20 Oscillator Circuits : The Hartley Oscillator
- 21 Oscillator Circuits: The Colpitts Oscillator
- 22 Digital Integrated Circuits: The AND Gates
- 23 Digital Integrated Circuits: The OR Gate
- 24 Digital Integrated Circuits: The AND-OR Function
- 25 Digital Integrated Circuits: The Inverting Gate
- 26 Digital Integrated Circuits: The NAND Gate
- 27 Digital Integrated Circuits: The NOR Gate
- 28 Digital Integrated Circuits: The Full Adder

PACKAGE CONTENTS

- 01 Wiring templates (28 pieces)
- 02 Experiment manual 1set
- 03 Component pack 1 set with templates
- 04 Breadboard 1680 Tie points.
- 05 Dimensions 170 x 127 x 50mm
- 06 Weight 1.4Kg.

COMPONENTS PROVIDED (ACCESSORIES)

RESI STORS 1/2W: 100E/1 120E/1, 270E/5, 470/1, 680/1, 1K/2,1K5/2, 1K8/1, 2K7/23K3/1, 3K9/1, 4K7/3,

5K6/1, 8K2/1, 10K/3, 22K/1, 27K1, 33K/1, 39K/1, 47K/1, 68K/1270K/1, 1M/1,

RESISTORS HIGHER WATT: 10E, 1W/1, 4E7, 5W/1,

POLYESTER CAPACI TORS: 0.01 u F/3,0.015 u F/2,0.02 2 uF/2,0.047 uF/2,,0.1uF/1,0.22uF/2

ELECTROLYTIC CAPACITORS: 22Uf/25V/2, 100uF/25V/3 POENTI OMETERS: 1K/1, 4K7/2, 10K/1 SWITCHES: SPDT/3.

DI ODES ANDLEDs: IN4007/4, 5mm LED (Red)/5

TRANSISTOR: CL-100/1,CK-100/1,BC546/2, 2N-2222/2, BFW10/1 TRANSFORMERS: OUT-PUT/1, IN-PUT/1, MAIN TX 6V3-06V3/1 INTEGRATED CIRCUITS: 7400/1, 7404/1, 7411/1, 7432/1

SPEAKER: 8E, 0.25W/1 MULTIMETER: 03

LIST OF ACCESSORIES:

- 01 Mains cord
- 02 Red & Black patch cords (2mm two 1MM) 10 each,
- 03 Red & Black patch cord (1mm to 1mm) 10 each.
- 04 Wire 24/25 SWG.1 Meter each 5 Colour

INSTRUCTION MANUAL:

Strongly supported by detailed operating instructions.

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