Mindluster Platform

About the course Electrical Engineering Basics

Electrical Engineering course, in this course we will explore the fundamentals and applications of electrical engineering, covering circuits, electronics, and power systems."

Engineering Category's Courses

Course Lesson(37)

Lesson 1 : **How ELECTRICITY works working principle**

Lesson 2 : **Electrical Current Explained AC DC fuses circuit breakers multimeter GFCI ampere**

Lesson 3 : **Voltage Explained What is Voltage Basic electricity potential difference**

Lesson 4 : **Ohms Law Explained The basics circuit theory**

Lesson 5 : **Conventional Current v Electron Flow Electricity explained**

Lesson 6 : **DC Series circuits explained The basics working principle**

Lesson 7 : **DC parallel circuits explained The basics how parallel circuits work working principle**

Lesson 8 : **Diodes Explained The basics how diodes work working principle pn junction**

Lesson 9 : **Inductors Explained The basics how inductors work working principle**

Lesson 10 : **How Batteries Work Battery electricity working principle**

Lesson 11 : **How does an Electric Motor work DC Motor explained**

Lesson 12 : **How Relays Work Basic working principle electronics engineering electrician amp**

Lesson 13 : **How Electric Motors Work 3 phase AC induction motors ac motor**

Lesson 14 : **Transformers Explained How transformers work**

Lesson 15 : **3 Way Switches Explained How to wire 3 way light switch**

Lesson 16 : **AC Basics Learn All About Alternating Current**

Lesson 17 : **How Receptacles Work The basic working principle explained grounding**

Lesson 18 : **Four Way Switching Explained How to wire 4 way intermediate light switch**

Lesson 19 : **What is a kWh kilowatt hour CALCULATIONS energy bill**

Lesson 20 : **How Alternators Work Automotive Electricity Generator**

Lesson 21 : **How A Car Battery Works basic working principle**

Lesson 22 : **Power Factor Explained The basics what is power factor pf**

Lesson 23 : **Single Phase Electricity Explained wiring diagram energy meter**

Lesson 24 : **120V 240V Electricity explained Split phase 3 wire electrician**

Lesson 25 : **Ground Neutral and Hot wires explained electrical engineering grounding ground fault**

Lesson 26 : **How Three Phase Electricity works The basics explained**

Lesson 27 : **Three Phase Electricity Basics and Calculations electrical engineering**

Lesson 28 : **Variable Frequency Drives Explained VFD Basics IGBT inverter**

Lesson 29 : **Star Delta Starter Explained Working Principle**

Lesson 30 : **Time Delay Relays Explained How timing relays work hvacr**

Lesson 31 : **Full Wave Bridge Rectifier Capacitor filters half wave rectifier**

Lesson 32 : **How Optocouplers work opto isolator solid state relays phototransistor**

Lesson 33 : **Capacitor calculations Basic calculations for capacitors in series and parallel**

Lesson 34 : **AC Electrical Generator Basics How electricity is generated**

Lesson 35 : **How Do Power Outlets Work**

Lesson 36 : **How LEDs Work Unravel the Mysteries of How LEDs Work**

Lesson 37 : **How Potentiometers Work Unravel the Mysteries of How potentiometers Work**

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