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INDUSTRIAL ELECTRONICS N2 JUNE 2022 Direct Current THEORY @mathszoneafricanmotives by Maths Zone African Motives 13,151 views 1 year ago 16 minutes - Industrial electronics N2, Question papers and **memos**,. **Industrial electronics N2**, DC Theory. #engineering #mathszone #maths ...

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A Day in the Life of an Electrical Engineer *in Africa* ????? - A Day in the Life of an Electrical Engineer *in Africa* ????? by Mutombo ? 114,879 views 1 year ago 11 minutes, 55 seconds - Hi beautiful people! In this video, I show you a glimpse of what life as an electrical engineer can be like and what my 9 - 5 job is ...

Ecde L2 Intro-Module 2-Session 2.1-Basic electronic components, Circuit symbols and Important tools -

Ecde L2 Intro-Module 2-Session 2.1-Basic electronic components, Circuit symbols and Important tools by

Majuba TVET College 6,425 views 3 years ago 22 minutes - Electronic, control and digital **electronics**, level two session 2.1 session 2.1 will cover the following content basic **electronic**, ...

2 Conductors, Insulators \u0026 Cables - 2 Conductors, Insulators \u0026 Cables by W KIESER 37,260 views 2 years ago 13 minutes, 19 seconds - New curriculum for **N2**, Electrical Trade Theory

<https://www.stuvia.co.za/bundle/84690/n2,-electrical-trade-theory>.

Intro

UNIT 2.1 CONDUCTORS

UNIT 2.2 JOINING CONDUCTORS

UNIT 2.3 INSULATORS

UNIT 2.4 CABLES

UNIT 2.5 CABLE JOINTS

UNIT 2.6 MAXIMUM PERMISSIBLE VOLT DROP

UNIT 2.7 CALCULATING THE AMOUNT OF FAULT CURRENT THAT A CABLE CAN CARRY

UNIT 2.8 SINGLE PHASE CIRCUIT

UNIT 2.9 THREE PHASE CIRCUIT

4 Switchgear \u0026 Protective Devices - 4 Switchgear \u0026 Protective Devices by W KIESER 29,115

views 2 years ago 8 minutes, 30 seconds - New Curriculum for N2, Electrical Trade Theory.
<https://www.stuvia.co.za/bundle/84690/n2,-electrical-trade-theory>.

Intro

DIFFERENT TYPES OF SWITCHGEAR

DISCONNECTOR: (OFF-LOAD)

SWITCH DISCONNECTOR: (ON-LOAD)

CONTACTORS

TIMING DEVICES

DAY-NIGHT SWITCH

SINGLE PHASE CIRCUIT BREAKERS

THERMAL TYPE CIRCUIT BREAKER

HYDRAULIC TYPE CIRCUIT BREAKER

OVERLOAD RATING

SHORT-CIRCUIT RATING

REWIREABLE FUSES

BLADE-TYPE FUSES: PROTECT CIRCUITS IN MOTOR VEHICLES.

CARTRIDGE FUSE (HRC)

OVERLOAD RELAY (OLR)

EARTH LEAKAGE RELAYS (ELR's)

LIGHTNING ARRESTOR

SURGE PROTECTOR

EARTHING COMPENSATOR (ZIG-ZAG)

AUTORECLOSER

6.1 DC MACHINES - 6.1 DC MACHINES by W KIESER 19,137 views 2 years ago 4 minutes, 31 seconds -

This is unit 6.1 and in this video, we will be looking at the construction of a DC Machine.

Introduction

DC Machines

Field Pole

Field Coil

Pole Shoe

Air Gap

Construction

Armature

Commutator

Bearings

Brushes

Semiconductors, Insulators \u0026 Conductors, Basic Introduction, N type vs P type Semiconductor -
Semiconductors, Insulators \u0026 Conductors, Basic Introduction, N type vs P type Semiconductor by The
Organic Chemistry Tutor 422,818 views 6 years ago 12 minutes, 44 seconds - This chemistry video tutorial
provides a basic introduction into semiconductors, insulators and conductors. It explains the ...

change the conductivity of a semiconductor

briefly review the structure of the silicon

dope the silicon crystal with an element with five valence

add a small amount of phosphorous to a large silicon crystal

adding atoms with five valence electrons

add an atom with three valence electrons to a pure silicon crystal

drift to the p-type crystal

field will be generated across the pn junction

How to Solve Any Series and Parallel Circuit Problem - How to Solve Any Series and Parallel Circuit

Problem by Jesse Mason 4,649,705 views 8 years ago 14 minutes, 6 seconds - How do you analyze a circuit
with resistors in series and parallel configurations? With the Break It Down-Build It Up Method!

INTRO: In this video we solve a combination series and parallel resistive circuit problem for the voltage
across, current through and power dissipated by the circuit's resistors.

BREAK IT DOWN: We redraw the circuit in linear form to more easily identify series and parallel relationships. Then we combine resistors using equivalent resistance equations. After redrawing several times we end up with a single resistor representing the equivalent resistance of the circuit. We then apply Ohm's Law to this simple (or rather simplified) circuit and determine the circuit current (I_0 in the video).

BUILD IT UP: Retracing our redraws, we determine the voltage across and current through each resistor in the circuit using Ohm's Law.

POWER: After tabulating our solutions we determine the power dissipated by each resistor.

Transistors - NPN \u0026 PNP - Basic Introduction - Transistors - NPN \u0026 PNP - Basic Introduction by The Organic Chemistry Tutor 1,018,479 views 4 years ago 30 minutes - This **electronics**, video tutorial provides a basic introduction into NPN and PNP transistors which are known as BJTs or Bipolar ...

Types of Transistors the Npn Transistors

The Npn Transistor

Draw the Electrical Symbols for an Npn and a Pnp Transistor

Emitter

Pnp Transistor

Formulas

Emitter Currents

Emitter Current

Solving a Circuit

Current Flowing through a Resistor

Reverse Bias Mode

Active Region

Saturation Region

Cutoff Region

I_c Value

Basic Electronics For Beginners - Basic Electronics For Beginners by The Organic Chemistry Tutor 1,579,102 views 3 years ago 30 minutes - This video provides an introduction into basic **electronics**, for beginners. It covers topics such as series and parallel circuits, ohm's ...

Resistors

Series vs Parallel

Light Bulbs

Potentiometer

Brightness Control

Voltage Divider Network

Potentiometers

Resistance

Solar Cells

How to Solve a Kirchhoff's Rules Problem - Simple Example - How to Solve a Kirchhoff's Rules Problem - Simple Example by Jesse Mason 2,434,551 views 12 years ago 9 minutes, 11 seconds - We analyze a circuit using Kirchhoff's Rules (a.k.a. Kirchhoff's Laws). The Junction Rule: \"The sum of the currents into a junction is ...

Introduction

Labeling the Circuit

Labeling Loops

Loop Rule

Negative Sign

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INDUSTRIAL ELECTRONICS N2 AC THEORY AUGUST 2021 @mathszoneafricanmotives - INDUSTRIAL ELECTRONICS N2 AC THEORY AUGUST 2021 @mathszoneafricanmotives by Maths Zone African Motives 4,546 views 1 year ago 13 minutes, 27 seconds - Join this channel to get access to

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Industrial Electronics N2 AC THEORY THE SINEWAVE @mathszoneafricanmotives - Industrial Electronics N2 AC THEORY THE SINEWAVE @mathszoneafricanmotives by Maths Zone African Motives 751 views 4 months ago 27 minutes - Join this channel to get access to perks:

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INDUSTRIAL ELECTRONICS N2 THE DECIBEL PART 2 PAST PAPERS @mathszoneafricanmotives - INDUSTRIAL ELECTRONICS N2 THE DECIBEL PART 2 PAST PAPERS @mathszoneafricanmotives by Maths Zone African Motives 792 views 5 months ago 29 minutes - #maths #mathszoneafricanmotives #light #engineering #southafrica.

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Intro

Question

Explanation

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Intro

Calculating total resistance

Combining resistors

Total current

Current in R2

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