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Electrotechnology N3 Alternating Current Theory November 2022 Q5 @mathszoneafricanmotives - Electrotechnology N3 Alternating Current Theory November 2022 Q5 @mathszoneafricanmotives by Maths Zone African Motives 3,527 views 8 months ago 13 minutes, 17 seconds - Join this channel to get access to perks: https://www.youtube.com/channel/UC66ip_wSI8B4iy5LxuZF0pw/join.

N3 ELECTROTECHNOLOGY EXAM PAPER - N3 ELECTROTECHNOLOGY EXAM PAPER by W KIESER 8,411 views 2 years ago 7 minutes, 58 seconds - Questions, 1 to 3 for revision.

Intro

Why are field poles and armature

Faradays Law of EMF

First Calculation

Second Calculation

Armature Reaction

Final Calculation

Substitute Values

Electrotechnology N3 Alternating Current Theory NOVEMBER 2022 Question 6 @mathszoneafricanmotives - Electrotechnology N3 Alternating Current Theory NOVEMBER 2022 Question 6 @mathszoneafricanmotives by Maths Zone African Motives 1,896 views 8 months ago 13 minutes, 1 second - Join this channel to get access to perks: https://www.youtube.com/channel/UC66ip_wSI8B4iy5LxuZF0pw/join.

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November 2019 National Examination - November 2019 National Examination by W KIESER 8,477 views 4 years ago 24 minutes - N3 Electrotechnology, examination **paper**, for November 2019.

Question One

Question 1 2

Question 2

Question Three

Generated Emf

Question 4

Question 4 2

Question Five Point Two

Question Six

Total Impedance

Calculate the Algebraic Sum of the 3 Volt Drops

Question 7 1

8 2 a Three-Phase Distribution Transformer

The Turns Ratio

Calculate the Phase Currents

Primary Line Currents

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Intro

Part I

Part II

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A Day in the Life of an Electrical Engineer *in Africa* (v1) A Day in the Life of an Electrical Engineer *in Africa* by Muzombo a 114,765 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 ...

3 Phase: How to Calculate Line Voltage, Phase Voltage, Line Current & Phase Current in Star & Delta - 3 Phase: How to Calculate Line Voltage, Phase Voltage, Line Current & Phase Current in Star & Delta by Joe Robinson Training 482,623 views 4 years ago 25 minutes - In this video we look at resistive loads connected in 3 phase star and delta circuits and figure out how to calculate line voltage, ...

Find the Phase Voltage

The Value of the Phase Voltage

Line Current

Calculate the Phase Current

Calculate the Phase Current

Phase Current

Question 5

Calculating the Phase Current

Question 6

Phase Voltage

3 DC Generators - 3 DC Generators by W KIESER 28,702 views 4 years ago 18 minutes

- <https://forms.gle/D1kKNXusLZgcLXQb6> CLICK ON THE LINK TO PRACTICE SOME ONLINE

QUESTIONS.

SEPERATELY EXCITED GENERATOR

EXAMPLE 3.2: SHUNT WOUND GENERATOR

COMPOUND WOUND GENERATOR

SUMMATIVE ASSESSMENT

Transistors - NPN & PNP - Basic Introduction - Transistors - NPN & PNP - Basic Introduction by The Organic Chemistry Tutor 1,017,941 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

Ic Value

6.1 DC MACHINES - 6.1 DC MACHINES by W KIESER 19,109 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

4 Switchgear & Protective Devices - 4 Switchgear & Protective Devices by W KIESER 29,085 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

2 Conductors, Insulators & Cables - 2 Conductors, Insulators & Cables by W KIESER 37,230 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

What is a Transformer And How Do They Work? | Transformer Working Principle | Electrical4U -

What is a Transformer And How Do They Work? | Transformer Working Principle | Electrical4U by

Electrical4U 1,745,196 views 7 years ago 8 minutes, 49 seconds - A transformer is defined as a passive electrical device that transfers electrical energy from one circuit to another through the ...

Working Principle of Transformer

Right-Hand Grip Rule

Faraday's Laws of Electromagnetic Induction

Second Winding in the Transformer

The Voltage Induced per Turn in both Windings

Secondary Winding

= =a è¢ S 7> cÔ• 5 by Mpte Democracy U - p56v12068 Streamed 2 days ago 08 minutes 11 seconds +

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#AAU - Emerging technology final exam questions and answers | Emerging Technology Chapter 3

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utes, 55 seconds - Join this channel to get access to perks: https://www.youtube.com/channel/UC66ip_wSl8B4iy5LxuZF0pw/join.

Introduction

Question

Answer

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nology N3 DC MACHINES Nated Engineering @mathszoneafricanmotives by Maths Zone African

Motives 2,546 views 8 months ago 13 minutes, 32 seconds - Join this channel to get access to perks:

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N3 ELECTROTECHNOLOGY EXAM PAPER - N3 ELECTROTECHNOLOGY EXAM PAPER by W

KIESER 3,677 views 2 years ago 3 minutes, 48 seconds - Questions, 4 and 5.

4.2 MAKE A NEAT FULLY LABELLED SKETCH OF A SIMPLE THERMAL-TYPE OVERLOAD

RELAY.

4.3 DURING A BRAKE TEST ON A DC MOTOR THE FOLLOWING INFORMATION WAS RECORD-

ED.

5.1 STATE WHAT IS MEANT BY THE FOLLOWING TERMS WITH REGARDS TO A SINUSIODAL

WAVEFORM.

Electrotechnology N3 Generated EMF and BACK EMF Calculations @mathszoneafricanmotives -

Electrotechnology N3 Generated EMF and BACK EMF Calculations @mathszoneafricanmotives by

Maths Zone African Motives 1,495 views 8 months ago 4 minutes, 28 seconds - Join this channel to

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szoneafricanmotives - Mathematics N3 NOVEMBER 2022 FULL PAPER MEMO NATED ENGI-

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1 hour, 38 minutes - Join this channel to get access to perks: https://www.youtube.com/channel/UC66ip_wSl8B4iy5LxuZF0pw/join.

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tronics N3 FEBRUARY 2022 MEMO @mathszoneafricanmotives by Maths Zone African Mo-

tives 3,786 views 9 months ago 1 hour, 4 minutes - Join this channel to get access to perks:

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Electrotechnology N3 DC Machines - Electrotechnology N3 DC Machines by Lwethu TVET Engineering 2,753 views 1 year ago 51 minutes - ... entry I know so uh which is this is the first section for em **Electro technology**, entry so the first chapter is it is a machines so before ...

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