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How to Solve Any Series and Parallel Circuit Problem - How to Solve Any Series and Parallel Circuit Problem by Jesse Mason 4,647,342 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.

Thevenin's Theorem - Circuit Analysis - Thevenin's Theorem - Circuit Analysis by The Organic Chemistry Tutor 1,757,547 views 4 years ago 9 minutes, 23 seconds - This video explains how to calculate the current flowing through a load resistor using thevenin's theorem. Schematic Diagrams ...

Thevenin Resistance

Thevenin Voltage

Circuit Analysis

How to Find a Fault on a Ring Final Circuit (Sockets) Help for AM2 & AM2S Testing and Fault Finding - How to Find a Fault on a Ring Final Circuit (Sockets) Help for AM2 & AM2S Testing and Fault Finding by GSH Electrical 210,008 views 4 years ago 8 minutes, 15 seconds - How to find fault on a ring final circuit sometime called a ring circuit or ring main. Using a Megger MFT tester Marcus sets about ...

Ring circuit fault

Fault finding on a ring final circuit sometimes called a ring main

Open circuit on our ring final neutrals

End to end testing line, CPC and neutral

Making the ring final circuit into a radial to help with fault finding

Testing at every socket outlet looking for continuity between line and neutral

Making the ring final circuit into a radial to help with fault finding

Identifying the socket or area that has the fault on it

The socket with the neutral fault is identified

Insulation Resistance Test (Includes Line and Neutral Together to Earth and Between Live Conductors) - Insulation Resistance Test (Includes Line and Neutral Together to Earth and Between Live Conductors) by GSH Electrical 465,051 views 6 years ago 8 minutes, 44 seconds - Students training aid for testing insulation resistance of complete domestic dwelling. Demonstration shows how to set up your ...

Insulation resistance test

Continuity of CPC test leaving all circuits on and all loads removed

Returning connections in the consumer unit to the correct torque settings

BS 7671 states insulation resistance test is to be carried out between live conductors and live conductors to earth

Setting up a Megger MFT tester to carryout insulation resistance test

Insulation resistance test live conductors (line and neutral) together to earth

Insulation resistance test between live conductors (line and neutral)

Remember to operate 2 way and 2 way and intermediate switches and repeat the test again as stated in the On-Side Guide

Fault Finding Electrical Circuits - Electrician Life - Fault Finding Electrical Circuits - Electrician Life

by Artisan Electrics 361,958 views 3 years ago 24 minutes - Fault Finding **Electrical**, Circuits - Electrician Life Join me as I trace a fault with a tripping RCD! Subscribe to our YouTube Channel ...

Insulation Tests

Installation Resistance Test across All the Circuits

Continuity Test

Continuity Tests

Insulation Resistance Test

4 Years of Electrical Engineering in 26 Minutes - 4 Years of Electrical Engineering in 26 Minutes by Ali the Dazzling 782,360 views 1 year ago 26 minutes - Electrical Engineering, curriculum, course by course, by Ali Alqaraghuli, an **electrical engineering**, PhD student. All the electrical ...

Electrical engineering curriculum introduction

First year of electrical engineering

Second year of electrical engineering

Third year of electrical engineering

Fourth year of electrical engineering

Circuits 1 - Thevenin and Norton Equivalents - Circuits 1 - Thevenin and Norton Equivalents by UConn HKN 426,009 views 8 years ago 12 minutes, 43 seconds - Zac Sutton of UConn HKN determines the Thevenin and Norton Equivalents of an **electrical**, circuit. Still don't get it?

Introduction

Definition

Solving for Resistance

Example

18TH EDITION AMENDMENT 2 SIMPLIFIED! - Electrician Life - 18TH EDITION AMENDMENT 2 SIMPLIFIED! - Electrician Life by Artisan Electrics 59,536 views 1 year ago 7 minutes, 8 seconds - 18TH **EDITION**, AMENDMENT 2 SIMPLIFIED! BS 7671 Amendment 2 Artisan Electrics has got you covered. The big brown book is ...

It Has Happened

When Will It Take Effect?

What Are The Changes?

Surge Protection Devices

AFDD's

Type A RCD's

Making Our Lives Easier

Labelling

Taking A Bath

Lots Of Others

How to Test a Ring Final Circuit - Ring Main or Socket Circuit - Ring Continuity & Polarity Tests - How to Test a Ring Final Circuit - Ring Main or Socket Circuit - Ring Continuity & Polarity Tests by GSH Electrical 207,989 views 3 years ago 14 minutes, 25 seconds - In this video me and Marcus look at dead test number 2 in BS7671. In the test sequence this is "testing continuity of ring final ...

Ring circuit test

Continuity of a ring final circuit

Stage 1 - end to end test -  $r_1$ ,  $r_n$ ,  $r_2$  in ohms

CPC  $r_2$  is 1.5 mm<sup>2</sup> proving 1.67 times greater than  $r_1$  and  $r_n$

Stage 2 - opposite line to opposite neutral (figure of 8)

Calculations for  $R_1 + R_n$

Testing at our fuse connection unit on our ring final circuit

Testing at every socket outlet during stage 2

Contact cleaner to improve the electrical connection

Stage 3 - opposite line to opposite CPC (figure of 8)

Calculations for  $R_1 + R_n$

Testing at our fuse connection unit on our ring final circuit

Visual polarity of the fuse connection unit (fuse spur)

Testing at every socket outlet during stage 3

Completing the test paperwork for our ring final circuit test

Fault Finding an Electrical Lighting Circuit - Expert Electricians Top Tips - Fault Finding an Electrical

Lighting Circuit - Expert Electricians Top Tips by Artisan Electrics 75,053 views 1 year ago 32 minutes

- Fault Finding an **Electrical**, Lighting Circuit - Expert Electricians Top Tips The rodents are back at it again! On this episode of ...

Completely Chewed

Further Testing

First Signs

Live Test

Fault Finding 101

Diagrams

Fearless Leader

Getting Closer

Hungry Squirrel

FLIES

Magnetic Circuits || Core with Two Air Gaps || End Ch Problem 1.6 || EM 1.4(6)(Chapman) - Magnetic

Circuits || Core with Two Air Gaps || End Ch Problem 1.6 || EM 1.4(6)(Chapman) by Electrical

Engineering Academy 34,409 views 2 years ago 12 minutes, 23 seconds - End Chapter Problem

1.6 || EM 1.4(6,) (English) 0:00 Intro 0:20 Question 1.6 explained 0:50 Total flux calculation 10:00

Flux in ...

Intro

Question 1.6 explained

Total flux calculation

Flux in each arm

Flux density in each arm

Section E - Fault diagnosis and rectification - AM2 pre assessment manual - Section E - Fault

diagnosis and rectification - AM2 pre assessment manual by Pure Electrical Training - by Adrian

Davey 39,859 views 3 years ago 45 minutes - In this video I continue talking you through the AM2

assessment using the NET pre-assessment manual, available off of the NET ...

The Safe Working Practice

What Would You Do To Repair the Fault

Short Circuit

Open Circuit

High Resistance Joint

Polarity Testing

Continuity Testing

Lighting Circuit

Data Cable

Superposition Theorem - Superposition Theorem by The Organic Chemistry Tutor 916,638 views

4 years ago 44 minutes - This electronics video tutorial provides a basic introduction into the

superposition theorem. It explains how to solve circuit ...

Introduction

Calculating Resistance

Calculations

Replacing the current source

Current divider circuit

How To Diagnose IC Faults : Is It The Chip Or Some Component Connected To It? A Practical Example - How To Diagnose IC Faults : Is It The Chip Or Some Component Connected To It? A Practical Example by Learn Electronics Repair 2,881 views 10 hours ago 28 minutes - A Customer brought me a Basic 400 Bi-Amp from an Active Speaker. It is faulty but I need to find out which component is causing ...

#BS7671 THE COURSE-6 how to tab up a regs book for exam speed - #BS7671 THE COURSE-6-how to tab up a regs book for exam speed by Actual Electrical Content with Jamie blatant 8,545 views 1 year ago 2 minutes, 58 seconds - this is the bs7671 course or as you may know it City & Guilds Requirements for **Electrical**, Installations (2382) it is presented as i ...

Intro

Regs books

Plastic books

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Part 7 tabs

Part 8 tabs

Favorite tabs

Summary

Fault Finding Testing for Insulation Resistance. Low Reading Insulation Resistance Fault - Fault Finding Testing for Insulation Resistance. Low Reading Insulation Resistance Fault by GSH Electrical 149,049 views 3 years ago 7 minutes, 20 seconds - How to test for insulation resistance inside a consumer unit. Marcus is carrying out an **electrical**, inspection and testing when he ...

Node Voltage Method Circuit Analysis With Current Sources - Node Voltage Method Circuit Analysis With Current Sources by The Organic Chemistry Tutor 1,086,814 views 4 years ago 32 minutes - This electronics video tutorial provides a basic introduction into the node voltage method of analyzing circuits. It contains circuits ...

get rid of the fractions

replace va with 40 volts

calculate the current in each resistor

determining the direction of the current in r3

determine the direction of the current through r 3

focus on the circuit on the right side

calculate every current in this circuit

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(2): 482. doi:10.1002/cber.19590920233. Nugent, K. W.; Beattie, J. K.; Hambley, T. W.; Snow, M. R. (1984). "A precise low-temperature crystal structure... 92 KB (9,934 words) - 08:22, 3 March 2024