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Basic Mechanical Engineering (Fe Sem. I, Su)

Studying engineering, whether it is mechanical, electrical or civil relies heavily on an understanding of mathematics. This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real-life engineering problems. It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential definitions, formulae, laws and procedures are introduced before real world situations, practicals and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains examples, supported by 1,600 worked problems and 3,000 further problems contained within exercises throughout the text. In addition, 34 revision tests are included at regular intervals. An interactive companion website is also provided containing 2,750 further problems with worked solutions and instructor materials

ENGINEERING TRIBOLOGY

1 Mass transfer 2 Drying 3 Heat transfer 4 Evaporation 5 Crystallization 6 Flow of fluids 7 Distillation 8 Corrosion

RAILWAY AND BRIDGE ENGINEERING (22403)

1 Building planning And Construction Materials 2 Building And Road Construction 3 Earthquake Engineering 4 Surveying And levelling 5 Water Resources Engineering 6 Environmental Engineering

Chemical Reaction Engineering II

11 Basic Concepts of Structural Analysis 2 Slope- Deflection Method 3 Moment Distribution Method 4 Approximate Analysis of multistory Frames 5 Fundamental Concept of Flexibility 6 Fundamental Concept of stiffness 7 Plastic Theory 8 Plastic Analysis

Understanding Engineering Mathematics

1 Water 2 Material Chemistry 3 Fuels 4 Corrosion And its Prevention 5 Electrochemistry 6 Stereo-chemistry

EMERGING TRENDS IN CIVIL ENGINEERING Course Code 22603

Unit I Structure of metals and materials Unit II Mechanical behaviours of metal and materials Unit III Destructive and non destructive testing Unit IV metals corrosions and its prevention Unit V Surface Modification methods Unit VI Powder metallurgical technology

Systems Approach in Civil Engineering

UNIT 1 - Introduction to Civil Engineering - UNIT 2 - Materials and Construction - UNIT 3 - Uses of MAPS and Field Surveys - UNIT 4 - Ecology and Eco System - UNIT 5 - Planning for the Built Environment - UNIT 6 - Energy and Environmental Pollution - Appendixes

Transportation Engineering II

Unit I - 1 linear Differential Equations With Constant Coefficeints 2 Simultaneous Linear Differential Equations, Symmetric Simultaneous D.E. And Applications Unit II -3 Laplace And Fourier Transform 4 Inverse Laplace Transform Unit III - 5 Fourier transform 6 The Z Transform Unit IV- 7 Vector Algebra 8 Vector Differentiation Unit V - Vector Integration 10 Applications of vectors to Electromagnetic Fields Unit VI- 11 Complex Differentiation 12 Complex Integration And Conformal Mapping Model Question paper- Online Examination Model Question paper Theory Examination

EMERGING TRENDS IN MECHANICAL ENGINEERING (22652)

Unit 1: Interference, Diffraction and Its Engineering Applications, Unit 2: Sound Engineering, Unit 3: Polarization And Laser, Unit 4: Solid State Physics, Unit 5: Wave Mechanics, Unit 6: Superconductivity And Physics Of Na

Engineering Mathematics

This book aims at providing a complete coverage of the needs of First Year students as per S.B.T.E's. revised syllabus. The entire revised syllabus has been covered keeping in view the non-availability of the complete subject matter through a single source. The difficult articles have been explained in a simple language providing, wherever necessary, neat and well explained diagrams so that even an average student may be able to follow it independently. A sufficient number of solved examples and problems with answers and SBTE questions are given at the end of each topic. Formulae specifying symbol meaning are enlisted before solving the examples.

Fundamentals of Civil Engineering

Engineering Mathematics Volume-I is meant for undergraduate engineering students. Considering the vast coverage of the subject, usually this paper is taught in three to four semesters. The two volumes in Engineering Mathematics by Babu Ram offer a complete solution to these papers.

Pharmaceutical Engineering

I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also.

Safety and Services Management

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Engineering Metallurgy

Introduction - Conduction - Convection - Radiation - Heat Exchange Equipments - Evaporation - Diffusion - Distillation - Gas Absorption - Liquid Liquid Extraction - Crystallisation - Drying - Appendix I Try yourself - Appendix II Thermal conductivity data - Appendix III Steam tables

Elements of Civil Engineering

Open Channel Flow, 2nd edition is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

Fundamentals Of Electrical Engineering

1 Elementary Concepts 2 Magnetic Circuits 3 Electromagnetic Induction 4 Single Phase Transformers 5 Electrostatics 6 A C fundamentals 7 Single Phase A C circuits 8 Three Phase A C Circuits 9 D C Circuits Appendix

GEOTECHNICAL ENGINEERING (22404)

Practical Manual Of Pharmaceutical Engineering

[basic electrical engineering j b gupta](#)

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Electrical Engineering MCQS on
Circuit breaker is a a. Current controlling device b. Current limiting device c. Current interrupting
device
Zero sequence fault current is absent when fault is a. single-line-to ground fault b. Line-to-line ground
fault c. Double-line-to ground fault d. Line-to-line fault
The most common type of fault is a. Single-phase to ground fault b. Phase-to-Phase c.
Two-phase-to-ground fault d. Three-phase to ground
a. 3-Phase fault b. 3-Phase to ground fault c. Line-to-Line fault d. Line-to-Ground fault
A Balanced 3-Phase system consist of a. Zero-sequence currents only b. Positive-sequence currents
only c. Negative and zero sequence currents d. Zero, negative and positive sequence currents.
For high speed circuit breaker the total clearing time is around a. Few minutes b. Few seconds c. 1
to 2 cycles d. 5 to 20 cycles
The rate of rise of Restriking voltage (RRRV) depends upon a. System voltage b. Circuit pf only c.
Switching conditions only d. Both b and c
The RRRV depends upon the a. Type of the circuit breaker b. Capacitance of the system only c.
Inductance of the system only d. Inductance and capacitance of the system
During arc extinction SF6 gas gets a. Decomposed into SF4 and SF2 b. Decomposed into S and
Fions c. Reduced to SF2 d. Oxidized
A thermal protection switch provides protection against a. Overload b. Overvoltage c. Temperature d.
Short circuit
Circuit breakers usually operated under a. Steady short-circuit current b. Sub-transient state of short
circuit current c. Transient state of short-circuit current d. None of these
The making to breaking current ratio for an EHV circuit breaker is a. More than 1 b. Less than 1 C.
Equal to 1 d. None of these
b. Isolator C. Load break switch d. Circuit breakers and load break switch
A bimetal strip in a thermal relay consist of two metal strips of different a. Specific heat b. Thermal
conductivity c. Coefficient of expansion d. All of these
The Buchhloz relay protects the transformer from a. Types of internal fault b. A turn to turn fault c.
Winding to winding fault d. None of these
An Impedance relay is a a. Voltage restrained overcurrent relay b. Voltage restrained directional relay
c. Directional restrained overcurrent relay d. Directional restrained overvoltage relay
The relay used for feeder protection is a. Undervoltage relay b. Translay relay C. Thermal relay d.
Buchholz relay
Merz-price protection is employed for protection of a. Alternators b. Transformer c. Transmission lines
d. Both a and b
A negative sequence relay is commonly used to protect (Gate-2011) a. An alternator b. A transformer
C. A transmission line d. A bus bar
A bus bar is rated by a. Currents only b. Voltage only c. Current, voltage and frequency d. Current,
voltage and frequency and short-circuit current
Transmission line is protected by a. Distance protection b. Current graded overcurrent protection c.
Time graded overcurrent protection d. Inrush operation
Bus coupler circuit breaker ins utilized in substation for a. Joining the transmission line with station
bus-bar b. Joining main and transfer bus in a substation c. Joining the generator with transfer d.
Joining the neutral of the generator with earth
a. Lightning arrester b. Capacitor c. Combination of lightning arrester and capacitor d. Lightning
conductor and arrester
Lighting arresters are used in power systems to protect electrical equipment against a. Direct stroke
of lightning b. Overvoltage due to indirect lightning stroke c. Overcurrent due to lightning d. Power
frequency over-voltages
Electrical branch Railway .JE ,((> 9H, \$H cbt-02 @ \$Railway JE Electrical branch Railway .JE ,((> 9H, \$H
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Q: Which of the following does not change in a transformer ? M0> a) Current (b) Voltage (c) Power (d) All of the above

Q: In a transformer the energy is conveyed from primary to secondary M0> 8a> 0M0G coil 8G & M (b) through air

Q: A transformer core is laminated to M0> a) reduce hysteresis losses (b) reduce eddy current losses

Q: The degree of mechanical vibrations produced by the laminations of a transformer depends on M0> 8+ & M5> 0a) thickness of lamination (b) quality of lamination (c) size of laminations

Q: The path of a magnetic flux in a transformer should have M0> a) high resistance (b) high reluctance (c) low resistance (d) low reluctance

Q: The efficiency of a transformer will be maximum when M0> a) copper losses = iron losses (b) hysteresis losses = eddy current losses (c) eddy current losses = copper losses (d) copper losses = iron losses

Q: No-load current in a transformer M0> a) lags behind the voltage (by about 75° (b) leads the voltage by about 75° (c) lags behind the voltage by about 15° (d) leads the voltage by about 15°

Q: The purpose of providing an iron core in a transformer is to M0> 8a> 0M0G (b) reduce hysteresis loss (c) decrease the reluctance of the magnetic path (d) reduce eddy current losses

Q: Which of the following is not a part of transformer installation ? (a) M(2? ?\$.G 8G L(M0> 8+> 0M.0 8M following side is short circuited M0> 8+> 0M.0 8M (b) 3rd winding side (c) 1st winding side (d) 2nd winding side

Q: In the transformer following winding has got more cross-sectional area M0> 8+> 0M.0 .G (? .M(2? ?\$ 5 (a) there is no need to change the D.C. voltage (b) a D.C. circuit has more losses (c) Faraday's laws of electromagnetic induction are not valid since the rate of change of flux is zero

Q: Primary winding of a transformer M0> 8+> 0M.0 (a) is always a low voltage winding (b) is always a high voltage winding (c) could either be a low voltage or high voltage winding (d) none of the above

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ANDARD TEST SIGNALS

If a control system is represented by $G(s)=1/Ts$, then it is a Type zero, first order system

A system with zero initial conditions has the

rious Time-Domain Specifications

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Electrons Come from Atoms

Static Electricity

Electrostatic Discharge

Electrostatic Discharges

Sources of Electrical Potential

Chemical Action

Chemical Action

Basic Elements

Thermocouple

Magnetic Field

Conductor

Relative Motion between the Conductor and the Magnetic Field

Relative Motion

Induced Electrical Potential

Practice Questions

The Photoelectric Effect

Electric Motor

How a Dc Motor Operates

Commutator and Brushes

Three Phase Electricity Basics and Calculations electrical engineering - Three Phase Electricity Basics and Calculations electrical engineering by The Engineering Mindset 1,484,026 views 5 years ago 14 minutes, 37 seconds - In this video we learn how **three**, phase **electricity**, works from the basics. We explain how **three**, phase **electricity**, is generated, how ...

get 120 volts from a single phase or 208 volts

connect my power analyzer to a three-phase system

wrap the copper wire into a coil

add a third coil 240 degrees rotation from the first one

start at 240 degrees rotation

just four cables one for each of the three phases

measure cycles in the unit of hertz

voltages from your plug sockets

write out a table showing each of the segments

calculate the instantaneous voltage at each of these 32 segments

calculate phase two voltages

showing the voltage for each phase

start by first squaring each instantaneous voltage for a full rotation

rms voltage of 120 volts

calculate the supply voltage by squaring each of the instantaneous voltages

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Intro

Materials

Circuits

Current

Transformer

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increase the voltage and the current

power is the product of the voltage

calculate the electric charge

convert 12 minutes into seconds

find the electrical resistance using ohm's

convert watch to kilowatts

multiply by 11 cents per kilowatt hour

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Intro

Theresa May steps down

Ranking Prime Ministers

The function of party whips

FGM on the rise

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Intro

Simple AC generator

Magnetic field

Frequency

Power

Cable size Circuit breaker amp size How to calculate What cable - Cable size Circuit breaker amp size How to calculate What cable by How2D2 1,418,740 views 5 years ago 13 minutes, 1 second - Hi .This video shows how to calculate cable and circuit breaker (fuse)for the design current. Bigger size cable is always better but ...

Intro

What is cable

Cable rating

Cable size

Voltage loss

Summary

The difference between neutral and ground on the electric panel - The difference between neutral and ground on the electric panel by grayfurnaceman 2,313,870 views 10 years ago 10 minutes, 12 seconds - This one gives a detailed description of how the ground and neutral are differentiated. This video is part of the heating and cooling ...

Intro

Main panel

Sub panel

Chassis ground

Hot lead

Current carrying

Safety ground

Loose wire

Current carrying wire

Why do we have ground

Why do we not have ground

Fault

How to do an EICR start to finish - Electrical Safety Inspection and Test - How to do an EICR start to finish - Electrical Safety Inspection and Test by Mark The Sparky Allison 47,472 views 1 year ago 46 minutes - I take a run through an EICR (**electrical**, installation condition report) step by step and share some of my methods/experiences in ...

Electrical Formulas - Basic Electricity For Beginners - Electrical Formulas - Basic Electricity For Beginners by The Organic Chemistry Tutor 40,168 views 6 months ago 18 minutes - This physics video tutorial provides a basic introduction on **electricity**, for beginners. It contains a list of formulas that covers ohm's ...

Single Phase Electricity Explained - wiring diagram energy meter - Single Phase Electricity Explained - wiring diagram energy meter by The Engineering Mindset 3,225,317 views 5 years ago 10 minutes, 10 seconds - Single phase **electricity**, explained. In this video we learn **electrical**, engineering basics by learning single phase meter wiring ...

Distribution Cables

Electricity Meter

The Rcd or Residual Current Device

Buzz Bar

Short-Circuit Protection

Earth Cables

Are You an Electrician? These are 5 Formulas You Should Know! - Are You an Electrician? These are 5 Formulas You Should Know! by Electrician U 685,268 views 1 year ago 17 minutes - Being a great electrician requires a strong knowledge of math. We use it daily from bending conduit, to figuring out what wire to ...

Intro

Jules Law

Voltage Drop

Capacitance

Horsepower

How to Pass Your Electrical Science and Principles Exam Videos 1 to 5 Revision Aid for Level 1 & 2 - How to Pass Your Electrical Science and Principles Exam Videos 1 to 5 Revision Aid for Level 1 & 2 by GSH Electrical 56,769 views 6 years ago 38 minutes - Students training aid for revision for your **electrical**, science and **principle**, at level 1 and 2 exams. This is my 5 videos in one video ...

GSH ELECTRICAL

SCIENCE AND PRINCIPLES RECAP 1

SCIENCE AND PRINCIPLES RECAP 2

Resistor in Circuit

SCIENCE AND PRINCIPLES RECAP 3

Magnetic Flux Density is the Tesla

SCIENCE AND PRINCIPLES RECAP 4

100 Windings Secondary Side

Transformer

SCIENCE AND PRINCIPLES RECAP 5

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Electrical Science and Principles Exams Common Formulas - Level 1 and 2 City and Guilds and EAL - Electrical Science and Principles Exams Common Formulas - Level 1 and 2 City and Guilds and EAL by GSH Electrical 21,948 views 6 years ago 3 minutes, 47 seconds - Student training aid for exam revision of **electrical**, science and **principles**, Level 1 and Level 2 recapping formulas need at exam ...

Key Formulas Required for Principals

Power Formulas

Formulas for Finding Power

AC Electrical Generator Basics - How electricity is generated - AC Electrical Generator Basics -

How electricity is generated by The Engineering Mindset 683,417 views 2 years ago 5 minutes, 56 seconds - Electrical, generator basics. Learn the basic operation of an **electrical**, generator, learn how magnets are used to generate ...

What is electricity

Electromagnetic fields

AC current

Magnetic field

Basic Electrical Principals - Basic Electrical Principals by W KIESER 7,915 views 4 years ago 4 minutes, 46 seconds - N1 Industrial Electronics class work and activities.

TVET's COVID-19 Learner Support Program EP143 - ELECTRICAL PRINCIPLES AND PRACTICE - NCV NQF L2 - TVET's COVID-19 Learner Support Program EP143 - ELECTRICAL PRINCIPLES AND PRACTICE - NCV NQF L2 by Jelo Creatives 2,317 views 3 years ago 29 minutes - Umgungundlovu TVET College Topic: Continuity and Current Flow. Cells In Series & Parallel An academic response which aims ...

OBJECTIVES

Closed and open circuits

Continuity and current flow

Parallel Circuits

Typical exam question

Ohm's Law - Ohm's Law by The Organic Chemistry Tutor 1,576,193 views 5 years ago 14 minutes
- This electronics video tutorial provides a basic introduction into ohm's law. It explains how to apply ohm's law in a series circuit ...

Ohms Law

Practice Problem

Example Problem

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[fundamentals of electric circuits 5th edition solutions manual](#)

Solutions Manual Fundamentals of Electric Circuits 5th edition by Alexander & Sadiku - Solutions Manual Fundamentals of Electric Circuits 5th edition by Alexander & Sadiku by Michael Lenoir 303 views 3 years ago 19 seconds - #solutionsmanuals #testbanks #engineering #engineer #engineer-ingstudent #mechanical #science.

2391 INSPECTION & TEST QUESTIONS AND ANSWERS FOR EXAMS AND ASSESSMENTS – WITH FULLY WORKED ANSWERS - 2391 INSPECTION & TEST QUESTIONS AND ANSWERS FOR EXAMS AND ASSESSMENTS – WITH FULLY WORKED ANSWERS by LEARN ELECTRICS 962 views 1 day ago 16 minutes - This LearnElectrics video is to help those of you that are taking Inspection and Test exams or assessments and want a little more ...

Kirchhoff's Laws in Circuit Analysis - KVL and KCL Examples - Kirchhoff's Voltage Law & Current Law - Kirchhoff's Laws in Circuit Analysis - KVL and KCL Examples - Kirchhoff's Voltage Law & Current Law by Math and Science 554,292 views 11 years ago 14 minutes, 27 seconds - In this lesson, you will learn how to apply Kirchhoff's Laws to solve an **electric circuit**, for the branch currents. First, we will describe ...

Kerkhof Voltage Law

Voltage Drop

Current Law

Ohm's Law

Rewrite the Kirchhoff's Current Law Equation

Problem 3.13 Alexander Sadiku 5th Edition - Problem 3.13 Alexander Sadiku 5th Edition by Ardi Satriawan 13,892 views 4 years ago 6 minutes, 39 seconds - Calculate v_1 and v_2 and in the **circuit**, of Fig. 3.62 using nodal analysis.

KVL KCL Ohm's Law Circuit Practice Problem - (Electrical Engineering Fundamental and Basics Review) - KVL KCL Ohm's Law Circuit Practice Problem - (Electrical Engineering Fundamental and Basics Review) by EE Review Videos 880,686 views 8 years ago 14 minutes, 53 seconds - KVL is Kirchhoff's Voltage Law. KCL is Kirchhoff's Current Law. The general approach to these types of problems is to find several ...

identify the currents

apply kirchhoff's current law

add up all the voltages around loop one

write a relationship between current voltage and resistance

solve for our voltages

Lesson 1 - Voltage, Current, Resistance (Engineering Circuit Analysis) - Lesson 1 - Voltage, Current, Resistance (Engineering Circuit Analysis) by Math and Science 4,976,013 views 8 years ago 41 minutes - In this lesson the student will learn what voltage, current, and resistance is in a typical **circuit**.

Introduction

Negative Charge

Hole Current

Units of Current

Voltage

Units

Resistance

Metric prefixes

DC vs AC

Math

Random definitions

7.11 - Example Problem - Fundamentals of Electric Circuits - 7.11 - Example Problem - Fundamentals of Electric Circuits by Brian J - Engineering Videos 737 views 10 months ago 7 minutes, 15 seconds - Example problem solved from **Fundamentals of Electric Circuits**, 6th Edition,.

Electrical Engineering: Ch 4: Circuit Theorems (16 of 35) Thevenin's Theorem Ex. 1 - Electrical Engineering: Ch 4: Circuit Theorems (16 of 35) Thevenin's Theorem Ex. 1 by Michel van Biezen 341,267 views 8 years ago 8 minutes, 25 seconds - In this video I will find $i=?$ of a load resistor by converting a linear **circuit**, with 1-voltage and 1-current source to a Thevenin's **circuit**,.

remove the low resistor

use a node analysis method

using kirchoff's rules on currents at a node

add the load resistor up

calculate the resistance of the remaining 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 5,496 views 21 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 ...

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(2001). Introduction to Electric Circuits (5th ed.). New York: John Wiley & Sons.

ISBN 978-0-47138689-6. Philosophical Transactions of the Royal Society LXXII... 120 KB (14,955 words) - 08:06, 7 March 2024

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