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Just read the brief blocks of text, view the videos, and check out some of the screened internet links.

**CIRCUITS**

**LABORATORY**

**EXPERIMENT 1**

Procedure. Note: This circuit was designed

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when we were just  
learning how to teach  
transistor function.

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Now, let's apply Ohm's law to the following circuit (for exercise purposes only, circuits are theoretical) and calculate the voltage and current supplied to each load. The schematic below shows a supply circuit for a child's bedtime toy.  $R_1$  represents the resistance value of the speaker and

# Read Free Experiments In R2 shows the resistance value of the LEDs. Theory And Applications

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Basic Electrical Theory |  
Ohms Law, Current,  
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And Applications  
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experiment, the student  
is required to have read  
the experiment



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background and  
procedure from the  
experiment manual and  
studied the related  
theory. The lab  
instructor may, during  
the experiment, ask  
students questions  
pertaining to the  
procedure and theory.

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ELECTRIC CIRCUITS  
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Calculating Equivalent  
Resistances in Parallel

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# Read Free Experiments In Circuits Experiments

Time - Part 1

Experiment Time - Part

2 ... You may want to

visit these tutorials on

the basic components

before diving into

building the circuits

Page 1 of 18. in this

tutorial. ... theory, if the

stash of 10k $\Omega$  resistors

are all 1% tolerance, we

can only get to 3.3k $\Omega$ .

But part

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## Series and Parallel Circuits - learn.sparkfun

This book presents the fundamentals of electronic and electrical circuits. The document presented the main theories, as well as many experiments for verification of various theoretical and ...

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(PDF) Electrical and  
Electronic Circuits:  
Theory and ...

DC Circuit Theory. The  
fundamental  
relationship between  
voltage, current and  
resistance in an  
electrical or electronic  
circuit is called Ohm's  
Law. ... A basic  
summary of the three  
units is given below.

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Voltage or potential difference is the measure of potential energy between two points in a circuit and is commonly referred to as its ...

---

DC Circuit Theory -  
Basic Electronics  
Tutorials

Step 1: Electricity.

There are two types of

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electrical signals, those being alternating current (AC), and direct current (DC). With alternating current, the direction electricity flows throughout the circuit is constantly reversing. You may even say that it is alternating direction.



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Instructables

EXPERIMENT: 7

MULTIPLEXER AND  
DEMULTIPLEXER.

AIM: To design and set  
up the following circuit

1) To design and set up  
a 4:1 Multiplexer

(MUX) using only

NAND gates. 2) To

design and set up a 1:4

Demultiplexer(DE-

MUX) using only

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NAND gates. 3) To  
verify the various  
functions of IC  
74153(MUX) and IC  
74139(DEMUX).

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LOGIC DESIGN  
LABORATORY  
MANUAL -  
Electric VLab  
APPARATUS  
REQUIRED: SLNO  
NAME OF THE

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**EXPERIMENT**  
**RANGE AND TYPE**  
**QUANTITY** 1 Single  
phase transformer

3KVA,230/230V,50 HZ

1 2 Wattmeter 2.5/5A

LPF 1 3 Wattmeter

10/20A UPF 1 4

Ammeter 0-1A 1 5

Ammeter 0-20A 1 6

Voltmeter 0-300V 1 7

Voltmeter 0-30/75V 1 8

1 variac 0-300V,15A 1

**THEORY:** The

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performance of a transformer can be calculated on the basis of its equivalent circuit which contains four main ...

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