

1.1.5.AKa Circuit Theory: Hand Calculations

Introduction

Have you ever used a calculator to add some numbers, looked at the answer, and realized that it was wrong? How did you know that the answer was incorrect? The calculator gave you an answer; why did you not trust it? You knew the answer was wrong because you understand the fundamentals of mathematics. Your instinct told you that the answer could not be correct.

The same is true for circuit analysis. Throughout this course you will be using Circuit Design Software (CDS) to test the circuits that you design. This software will always give an answer, whether it is right or wrong. The only way that you will be able to rely on these answers is if you have an understanding of the laws of circuit analysis. You must develop the same instinct for circuit behavior that you have for mathematics.

In this activity you will gain experience applying Ohm's Law and Kirchhoff's Voltage and Current Laws to solve simple series and parallel circuits.

Equipment

- Calculator

Procedure

1. For each of the resistors shown below, use Ohm's Law to calculate the unknown quantity. Be sure to put your answer in proper engineering notation and use the correct units.

$$I = 7.45 \text{ mA}$$



$$R = 240 \, \Omega$$

$$R = 226 \text{ k}\Omega$$



$$I = 2.94 \text{ mA}$$

$$V = 30.8 \text{ V}$$



$$V = 300 \text{ V}$$

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Learning to Be Useful: A Wise Giver's Guide to Supporting Career and Technical Education David Bass, 2016-09-01
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Transistors Tunnel Diodes Four Layer Diodes Light Controlled Devices Miscellaneous Circuits D A and A D Converters
Chapter 13 Fundamental Digital Circuits Diode Logic DL Gates Resistor Transistor Logic RTL Gates Diode Transistor Logic
DTL Gates Transistor Transistor Logic TTL Gates Emitter Coupled Logic ECL Gates MOSFET Logic Gates Chapter 14
Combinational Digital Circuits Boolean Algebra Logic Analysis Logic Synthesis Encoders Multiplexers and ROM s Chapter 15
Sequential Digital Circuits Flip Flops Synthesis of Sequential Circuits Analysis of Sequential Circuits Counters Shift Registers
Appendix Index WHAT THIS BOOK IS FOR Students have generally found electronics a difficult subject to understand and

learn Despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of electronics continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems Various interpretations of electronics terms also contribute to the difficulties of mastering the subject In a study of electronics REA found the following basic reasons underlying the inherent difficulties of electronics No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial and error Current textbooks normally explain a given principle in a few pages written by an electronics professional who has insight into the subject matter not shared by others These explanations are often written in an abstract manner that causes confusion as to the principle s use and application Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises Accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles The explanations do not provide sufficient basis to solve pro **Digital Logic B.** Matthew

Joordens,Siew Leong Chan,2005 Prepared for unit SEE202 Digital electronics offered by the Faculty of Science and Technology s School of Engineering and Technology in Deakin University s undergraduate Open Campus Program *Digital Logic A.* Matthew Joordens,Siew Leong Chan,2001 Prepared for units SEE202 SEE302 Digital electronics offered by the Faculty of Science and Technology s School of Engineering and Technology in Deakin University s Open Campus Program

Digital Circuits William J. Streib,2000-01-01 Digital Circuits is an introductory text for students with very little background in electronics Basic theory is developed in the text progressing into coverage of the devices and circuits used to build computers and other digital equipment Easy to understand content provides students with a sound understanding of

digital principles and practices **Digital Electronics** Robert Dueck, Ken Reid, 2011-09-19 DIGITAL ELECTRONICS offers a comprehensive computer supported introduction to digital electronics from basic electrical theory and digital logic to hands on high tech applications Designed to support Project Lead the Way's PLTW innovative Digital Electronics DE curriculum this dynamic text prepares students for college and career success in STEM Science Technology Engineering and Math The text introduces core concepts such as electrical shop practices and electrical theory enables students to gain confidence by exploring key principles and applying their knowledge and helps develop sophisticated skills in circuit analysis design and troubleshooting Many of the text's abundant examples and exercises support the use of Multisim allowing students to visualize and analyze circuits including combinational and sequential circuits before constructing them In addition a variety of proven learning tools make mastering the material easier including self check problems in every chapter Bring it Home questions to solidify core concepts and challenging Extra Mile problems to help students deepen their understanding and hone their skills As an integrated part of your PLTW program or a stand alone classroom resource DIGITAL ELECTRONICS is an ideal choice to support your students STEM success Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Dsst Introduction to Electronics** National Learning Corporation, 2019-02 The DSST Defense Activity for Non Traditional Education Support Subject Standardized Tests are comprehensive college and graduate level examinations given by the Armed Forces colleges and graduate schools These exams enable students to earn college credit for what they have learned through self study on the job or by other non traditional means

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there are three main approaches used to persuade others 1 ethos 2 pathos 3 logos the ethos approach appeals to the audience s ethics and morals such as what is the right see more

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when you give a persuasive speech on a question of value you need to justify your value judgement in light of clearly defined standards specific purpose statement regarding value to persuade my audience that animal testing is actually beneficial to humanity and the

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a proposition of value is one that asserts a speaker s sense of values or a writer s sense of right and wrong it discusses good and bad just and unjust the beautiful and the ugly value claims make judgments and readers need to evaluate the evidence and assumptions supporting

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key points questions of fact contrast with questions of policy which state that something should be and questions of value which state that something is good bad beautiful or worthwhile three basic types of questions of fact are historical controversy questions of

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as with any speech preparation is crucial before you put pen to paper think about what you want to achieve with your speech this will help organise your thoughts as you realistically can only cover 2 4 main points see more

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