

## 1.1 DC CIRCUITS – CALCULATIONS

### 1.1.1 OBJECTIVE

To calculate the voltages and currents in series and parallel DC circuits.

### 1.1.2 DISCUSSION

Series and parallel DC circuits can be analyzed by applying Ohm's Law,  $V = IR$ , and the following rules:

- i. In a series circuit, the voltage across a group of resistances is equal to the sum of voltages across each.
- ii. The total current delivered to a parallel circuit is equal to the sum of the currents in each parallel branch.
- iii. The current is the same in every resistance of a series circuit.
- iv. The voltage is the same across every resistance branch of a parallel circuit.

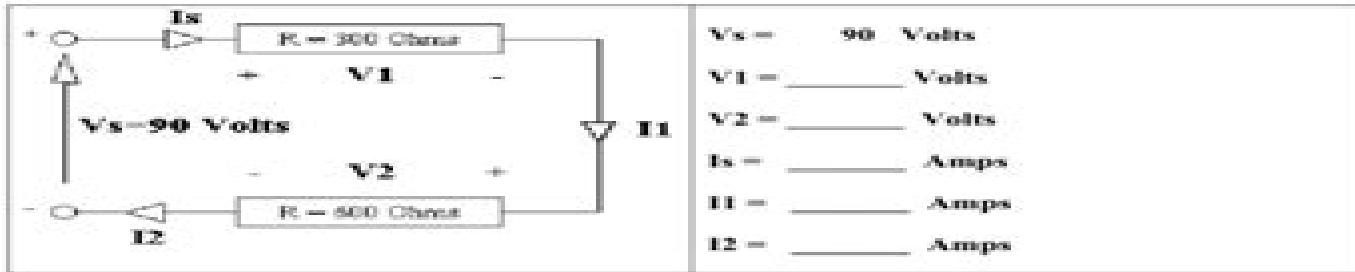
### 1.1.3 INSTRUMENTS AND COMPONENTS

(None for this portion)

### 1.1.4 PROCEDURE

Using the above rules calculate the voltage and current values listed for each of the following circuits. Show calculations as necessary.

#### A) 2 SERIES RESISTORS



# Measurements And Circuit Simulation Laboratory Manual

**Tony Cook**

## **Measurements And Circuit Simulation Laboratory Manual:**

*Industrial Electronic Circuits Laboratory Manual* Farzin Asadi,2024-01-06 Industrial Electronics is a branch of electronics which is used for industrial applications It plays a crucial role in the efficient and smooth operation of manufacturing facilities and industrial processes This book introduces the commonly used building blocks in industrial electronics The reader learns which circuit can be used for which application It is suitable as a laboratory manual for courses like industrial electronics or power electronics

**Laboratory Manual for Microelectronic Circuits** Kenneth C. Smith,Adel S.

Sedra,1991 This manual contains approximately 35 experiments It follows the organization of the text and includes experiments for all major topics To help instructor s choose and prepare for the experiments this manual identifies the core experiments all students should perform and includes manufacturers data sheets for the most common components

*Office of Naval Research Guide to Programs* United States. Office of Naval Research,1989 **Computer Simulated**

**Experiments for Electric Circuits Using Electronics Workbench** Richard H. Berube,1997 This laboratory manual aims to help students learn and understand circuit analysis concepts by using Electronic Workbench software to simulate actual laboratory experiments on a computer Students work with circuits drawn on the computer screen and with simulated instruments which act like actual laboratory instruments Circuits can be modified easily with on screen editing and analysis results provide fast accurate feedback The manual offers a hands on in approach in both interactive experiments and a series of questions about the results of each experiment This method provides a more cost effective safe and efficient learning process than using hardwired experiments The manual can be sold for use with any DC AC text An accompanying disk contains all of the circuits needed to perform the experiments on Electronics Workbench version 4

**Laboratory Manual**

Tony Cook,1998-12-03 **Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines** Azad, Abul K.M.,Auer, Michael E.,Harward, V. Judson,2011-11-30 This book presents current

developments in the multidisciplinary creation of Internet accessible remote laboratories offering perspectives on teaching with online laboratories pedagogical design system architectures for remote laboratories future trends and policy issues in the use of remote laboratories Provided by publisher *Instrumentation, Measurement, Circuits and Systems* Tianbiao Zhang,2012-03-09 The volume includes a set of selected papers extended and revised from the 2011 International Conference on Mechanical Engineering and Technology held on London UK November 24 25 2011 Mechanical engineering technology is the application of physical principles and current technological developments to the creation of useful machinery and operation design Technologies such as solid models may be used as the basis for finite element analysis FEA and or computational fluid dynamics CFD of the design Through the application of computer aided manufacturing CAM the models may also be used directly by software to create instructions for the manufacture of objects represented by the models through computer numerically controlled CNC machining or other automated processes without the need for intermediate

drawings This volume covers the subject areas of mechanical engineering and technology and also covers interdisciplinary subject areas of computers communications control and automation We hope that researchers graduate students and other interested readers benefit scientifically from the book and also find it stimulating in the process **Computer Simulated Experiments for Electric Circuits Using Electronics Workbench Multisim** Richard Henry Berube,2004 For courses in Electric Circuits This unique and innovative laboratory manual helps students learn and understand circuit analysis concepts by using Electronic Workbench software to simulate actual laboratory experiments on a computer Students work with circuits drawn on the computer screen and with simulated instruments that act like actual laboratory instruments Circuits can be modified easily with on screen editing and analysis results provide fast accurate feedback Hands on in approach throughout in both interactive experiments and a series of questions about the results of each experiment it is more cost effective safer and more thorough and efficient than using hardwired experiments This lab manual can be sold for use with any DC AC text Note This book no longer comes with a CD Any reference to a CD within the book is out of date and will be updated on our next printing The information from the CD is available online [http://media.pearsoncmg.com/ph/cher/chet\\_electronics\\_student\\_1](http://media.pearsoncmg.com/ph/cher/chet_electronics_student_1) Click on Older Titles [Lab Manual](#) Gregory L. Moss,1991 **Proceedings of the 2023 2nd**

**International Conference on Educational Innovation and Multimedia Technology (EIMT 2023)** Chew Fong Peng,Adelina Asmawi,Chuanjun Zhao,2023-07-04 This is an open access book As a leading role in the global megatrend of scientific innovation China has been creating a more and more open environment for scientific innovation increasing the depth and breadth of academic cooperation and building a community of innovation that benefits all Such endeavors are making new contributions to the globalization and creating a community of shared future To adapt to this changing world and China's fast development in the new era 2023 2nd International Conference on Educational Innovation and Multimedia Technology to be held in March 2023 This conference takes bringing together global wisdom in scientific innovation to promote high quality development as the theme and focuses on cutting edge research fields including Educational Innovation and Multimedia Technology EIMT 2023 encourages the exchange of information at the forefront of research in different fields connects the most advanced academic resources in China and the world transforms research results into industrial solutions and brings together talent technology and capital to drive development The conference sincerely invites experts scholars business people and other relevant personnel from universities scientific research institutions at home and abroad to attend and exchange **Computer Simulated Experiments for Electronic Devices Using Electronics Workbench**

Richard Henry Berube,1996 Created to provide a safer and more cost effective lab environment this manual introduces new methods of learning and understanding circuit analysis concepts by using Electronics Workbench to simulate actual lab experiments on the computer Using the latest circuit simulation software it allows for easy circuit modification more extensive troubleshooting experiments and more powerful computational tools **Electricity: Principles and**

**Applications, Experiments Manual** Richard Fowler,1998-10-30    *Electric Circuits Using Electronics Workbench* John P. Borris,1996 Using Electronics Workbench software as a learning tool to empower students to learn electronics at a more rapid pace this interactive manual takes them from basic DC and AC series and parallel circuits to simulation of circuits using transformers inductors and capacitor It includes numerous laboratory instrument exercises to enable students to use the oscilloscope and function generator and to get a much better understanding of adjusting the controls on the real equipment used in hands on labs    *Simulations for Digital Electronics Using Electronics Workbench* James L. Antonakos,1999 For junior level courses in Digital Electronics Designed to help students perform important and relevant analysis on typical circuit configurations on the computer without the cost of the associated lab equipment this lab manual provides hands on experience in using the virtual instruments of Electronic Workbench to simulate the operation of many typical digital circuits from basic logic gates AND OR inverter through decoders oscillators D A converters and others It features clear multi step procedures supported with screen shots for each step troubleshooting exercises critical thinking questions and an accompanying disk with all necessary files    Computer Simulated Experiments for Digital Electronics Using Electronics Workbench Multisim Richard H. Berube,2004-09 This unique and innovative laboratory manual helps users learn and understand circuit analysis concepts by using Electronic Workbench software to simulate actual laboratory experiments on a computer Learners work with circuits drawn on the computer screen and with simulated instruments that act like actual laboratory instruments Circuits can be modified easily with on screen editing and analysis results provide fast accurate feedback Hands on in approach throughout both interactive experiments and a series of questions about the results of each experiment it is more cost effective safer and more thorough and efficient than using hardwired experiments This For use with any DC AC text    **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1991    *Simulations for Operational Amplifiers Using Electronics Workbench* James L. Antonakos,1998 Appropriate as a supplement to op amp and devices courses where Electronics Workbench is used This hands on electronics lab manual presents a variety of computer based simulations of electronic circuitry analog and digital within an easy to learn and use virtual environment using Electronics Workbench    **Semiconductor Device Modeling with Spice** Giuseppe Massabrio,Paolo Antognetti,1998-12-22 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product    Proceedings American Society for Engineering Education,1990    Proceedings American Society for Engineering Education. Conference,1992

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