DEPARTMENT OF ELECTRICAL ENGINEERING FIRST YEAR E.T. LAB EXP. NO. – 2

Title: VERIFICATION OF THEVENIN THEOREM

Objective: Verification of Thevenin Theorem.

Theory: Any two output terminals of an active linear network containing independent sources (it includes voltage and current sources) can be replaced by a simple voltage source of magnitude V_{th} in series with a single resistor R_{th} where R_{th} is the equivalent resistance of the network when looking from the output terminals with all sources (voltage and current) removed and replaced by their internal resistances and the magnitude of V_{th} is equal to the open circuit voltage across the output terminals. V_{th} are R_{th} are called Thevenin-equivalent voltage and Thevenin-equivalent resistance, respectively.

Circuit Diagram:

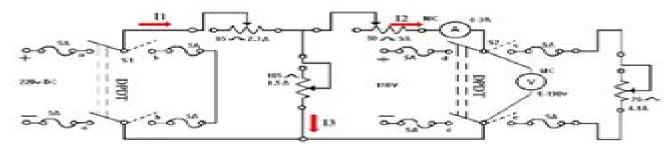


Fig. 1: Circuit diagram for verification in physical lab

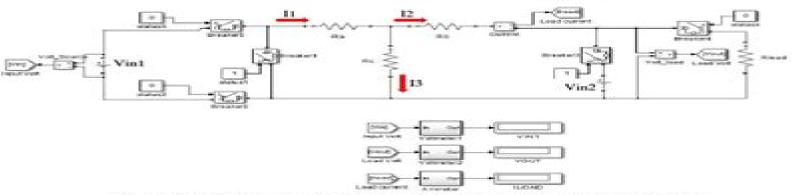


Fig. 2: Circuit diagram for verification in virtual simulation (MATLAB)

Network Theorem Lab Manual

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Novell Linux Certification Practicum Lab Manual Emmett Dulaney, 2005-11-03 Familiarize yourself with practicum exams to successfully take either the Novell Certified Linux Professional CLP or the Novell Certified Linux Engineer CLE exam with the Novell Linux Certification Practicum Lab Manual The first half of the book consists of exercises with scenarios and relevant background information The second half of the book walks through the exercises and shows the reader how to obtain the needed results and is broken into four sections Working with the Desktop CLP Intermediate Administration CLP and CLE Advanced Administration CLE Answers CLP and CLE You will be able to walk through the scenarios and assess your preparedness for the exam with the help of the Novell Linux Certification Practicum Lab Manual Mike Mevers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fourth Edition (Exam N10-006) Mike Meyers, Jonathan S. Weissman, 2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term guizzes help build your vocabulary Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors

Foundations of Electronics Russell L. Meade,1999 Learn electronics fundamentals for both DC and AC circuits from Ohms Law through series and parallel resonant circuits This highly acclaimed introduction to the world of electronics technology has been carefully updated to better provide technicians with a foundation in modern electronics needed to launch a career or pursue more advanced study Real world color codes and strategic highlighting are integrated with ample color charts photos schematics and diagrams for a solid understanding of circuit behavior that equips readers to progress to more complex topics with ease This edition features all new automated calculations for the formulas in the book on the accompanying CD as well as new information on admittance susceptance and more Mathematical Optimization

Theory and Operations Research Panos Pardalos, Michael Khachay, Alexander Kazakov, 2021-06-14 This book constitutes the proceedings of the 20th International Conference on Mathematical Optimization Theory and Operations Research MOTOR 2021 held in Irkutsk Russia in July 2021 The 29 full papers and 1 short paper presented in this volume were carefully

reviewed and selected from 102 submissions Additionally 2 full invited papers are presented in the volume The papers are

grouped in the following topical sections combinatorial optimization mathematical programming bilevel optimization scheduling problems game theory and optimal control operational research and mathematical economics data analysis

Basic Electricity Paul B. Zbar,1974 For students and instructors in vocational technical colleges <u>Quantitative</u> <u>Methods in Tourism</u> Rodolfo Baggio, Jane Klobas, 2017-07-06 In this revised second edition Baggio and Klobas build upon the work of their previous volume offering a presentation of quantitative research methods for tourism researchers This accessible and rigorous guide goes beyond the approaches usually covered in introductory textbooks on quantitative methods to consider useful techniques for statistical inquiry into tourism matters of all but the most econometrically complex kind The first part of the book concerns common issues in statistical analysis of data and the most widely used techniques while the second part describes and discusses several newer and less common approaches to data analysis that are valuable for tourism researchers and analysts Updates to the second edition include a new chapter on Big Data consideration of data screening and cleaning the use of similarity and diversity indexes for comparing samples observations about the partial least squares PLS approach to path modelling a new section on multi group structural equation modelling a new section on common method variance and its treatment revised and updated section on software fully updated references and examples

A Student's Guide to the Study, Practice, and Tools of Modern Mathematics Donald Bindner, Martin Erickson, 2010-11-29 A Student's Guide to the Study Practice and Tools of Modern Mathematics provides an accessible introduction to the world of mathematics It offers tips on how to study and write mathematics as well as how to use various mathematical tools from LaTeX and Beamer to Mathematica and Maple to MATLAB and R Along with a color insert the text Server+ Mike Schultz, Shawn Porter, 2001-09 This Lab Manual contains over 65 hands on labs that provide in include depth objective focused skills to help the user prepare for CompTIA's Server certification exam and for a job in the IT industry The text covers many advanced hardware topics featured on the Server certification exam including configuration troubleshooting and disaster recovery Kirshna's Computers and Languages, **Scientific and Technical** Aerospace Reports ,1994-08 Organization Theory Mary Jo Hatch, 2018 The Subject Guide to Books in Print ,1996 only textbook to use a three perspective framework to explain explore and evaluate organizational theory in a distinctively engaging style Organization Theory offers a clear and comprehensive introduction to the study of organizations and organizing processes Through the unique three perspective approach students are challenged to explain explore and evaluate organizational theory drawing on their own experiences as well as the book s diverse practical examples The fourth edition includes a host of new learning features which examine the practicality of theorizing and encourage students to broaden their intellectual reach Theory to Practice boxes and case studies highlight organizing processes in a range of settings either through real life business examples or through exercises that encourage students to apply the theory to organizations they know or organizing experiences of their own Think like a Theorist and Exercise Those Perspectives boxes

then encourage students to actively theorize and evaluate developing essential critical thinking skills and a greater understanding of the complex knowledge with which organization theorists grapple By taking theory off the page students can learn through doing and adopt a reflexive stance to the world around them Mary Jo Hatch draws on her extensive experience in the field to produce a trusted and accessible introduction to the subject that provides academic depth engaging pedagogy and a practical focus This book is accompanied by a collection of online resources For students Multiple choice questions For lecturers PowerPoint slides Figures and tables from the book Lecturers guide Additional case studies

Scientific Computing with MATLAB and Octave Alfio Quarteroni, Fausto Saleri, 2007-06-21 Preface to the First Edition This textbook is an introduction to Scienti c Computing We will illustrate several numerical methods for the computer solution of c tain classes of mathematical problems that cannot be faced by paper and pencil We will show how to compute the zeros or the integrals of continuous functions solve linear systems approximate functions by polynomials and construct accurate approximations for the solution of di erential equations With this aim in Chapter 1 we will illustrate the rules of the game that computers adopt when storing and operating with realand complex numbers vectors and matrices In order to make our presentation concrete and appealing we will 1 adopt the programming environment MATLAB as a faithful c panion We will gradually discover its principal commands statements and constructs We will show how to execute all the algorithms that we introduce throughout the book This will enable us to furnish an mediate quantitative assessment of their theoretical properties such as stability accuracy and complexity We will solve several problems that will be raised through exercises and examples often stemming from s ci c applications Giving Bodies Back to Data Silvia Casini, 2021-08-03 An examination of the bodily situated aspects of data visualization work looking at visualization practices around the development of MRI technology Our bodies are scanned probed imaged sampled and transformed into data by clinicians and technologists In this book Silvia Casini reveals the affective relations and materiality that turn data into image and in so doing gives bodies back to data Opening the black box of MRI technology Casini examines the bodily situated aspects of visualization practices around the development of this technology Reframing existing narratives of biomedical innovation she emphasizes the important but often overlooked roles played by aesthetics affectivity and craft practice in medical visualization Combining history theory laboratory ethnography archival research and collaborative art science Casini retrieves the multiple presences and agencies of bodies in data visualization mapping the traces of scientists body work and embodied imagination She presents an in depth ethnographic study of MRI development at the University of Aberdeen's biomedical physics laboratory from the construction of the first whole body scanner for clinical purposes through the evolution of the FFC MRI Going beyond her original focus on MRI she analyzes a selection of neuroscience or biomedicine inspired interventions by artists in media ranging from sculpture to virtual reality Finally she presents a methodology for designing and carrying out small scale art science projects describing a collaboration that she herself arranged highlighting the relational and aesthetic laden

character of data that are the product of craftsmanship and affective labor at the laboratory bench American Vocational American Scientific Books ,1965 Journal, 1972 EEE. .1969 PC AI. ,1991 **Governing Biodiversity through Democratic Deliberation** Mikko Rask, Richard Worthington, 2015-05-15 This book discusses political controversies involved in global biodiversity policy and the practical opportunities that are opened up in solving them through increased citizen participation and democratic deliberation It examines the emerging practice of deliberative global governance and its political consequences. The collection focuses on the intersection of global biodiversity policy and the promise of deliberative democracy In doing so it examines how new discursive logics emerge in global citizen deliberation that might destabilize the impasses encountered in biodiversity negotiations how a global citizens voice emerges in deliberative processes despite the dominance of national institutions in the lives of those citizens the most effective and innovative ways to amplify the results of large scale deliberations to policy makers and broader audiences and how future citizen deliberations can be designed to make them fair feasible and consequential processes in general and for biodiversity issues in particular This highly original contribution to the field provides theoretical discussions empirical analyses and local experiences of biodiversity policy making it an invaluable resource for students and scholars of environmental politics governance and sociology particularly those interested in deliberative democracy citizen participation and biodiversity The Publishers' Trade List Annual ,1980

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