

LAB MANUAL

For

Data Communication & Computer Network

Faculty Of Computing and Software Engineering

Target Group computer Science & Information Technology Students

BY Gashaw Alemu

S.No	Experiment
1.	Study of Network Devices in Detail.
2.	Study of network IP.
3.	Connect the computers in Local Area Network.
4.	Study of basic network command and Network configuration commands.
5.	Performing an Initial Switch Configuration
6.	Performing an Initial Router Configuration
7.	Configuring and Troubleshooting a Switched Network
8.	Connecting a Switch
9.	Configuring WEP on a Wireless Router
10.	Using the Cisco IOS Show Commands
11.	Examining WAN Connections
12.	Interpreting Ping and Traceroute Output
13.	Demonstrating Distribution Layer Functions
14.	Placing ACLs
15.	Exploring Different LAN Switch Options
16.	Implementing an IP Addressing Scheme
17.	Examining Network Address Translation (NAT)

Data Communication And Networking Lab Manual

Laura A. Chappell, Ed Tittel



Data Communication And Networking Lab Manual:

Networking and Data Communications Laboratory Manual Frances S. Grodzinsky, 1999 Designed for any introductory networking or data communications course This laboratory manual is designed for the purpose of enhancing the understanding of concepts discussed in a variety of networks and data communications texts This manual represents a work of dedication and collaboration by faculty from universities and colleges across the country Business Data Communications and Networking Jerry FitzGerald, Alan Dennis, 2009-01-09 Over the past few years many fundamental changes have occurred in data communications and networking that will shape the future for decades to come Updated with the latest advances in the field Jerry FitzGerald and Alan Dennis 10th Edition of Business Data Communications and Networking continues to provide the fundamental concepts and cutting edge coverage applications that students need to succeed in this fast moving field Authors FitzGerald and Dennis have developed a foundation and balanced presentation from which new technologies and applications can be easily understood evaluated and compared Lab Manual for Single- and Multiple-chip Microcomputer Interfacing Peter Song, G. Jack Lipovski, 1988 **Information Communication Technologies: Concepts, Methodologies, Tools, and Applications** Van Slyke, Craig, 2008-04-30 The rapid development of information communication technologies ICTs is having a profound impact across numerous aspects of social economic and cultural activity worldwide and keeping pace with the associated effects implications opportunities and pitfalls has been challenging to researchers in diverse realms ranging from education to competitive intelligence Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fifth Edition (Exam N10-007) Mike Meyers, Jonathan S. Weissman, 2018-07-13 Practice the Skills Essential for a Successful IT Career 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 quizzes help build your vocabulary Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fifth Edition covers Network models Cabling and topology Ethernet basics and modern Ethernet Installing a physical network TCP IP Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Building a real world network Managing risk Protecting your network Network monitoring and troubleshooting **NBS Special Publication**, 1973 *Mike Meyers' 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 quizzes 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

Laboratory Manual in Experimental Social Psychology Charles D. Ward,1970 *OPNET Lab Manual to Accompany Data and Computer Communications, Seventh Edition* Kevin Brown,William Stallings,Leann Christianson,2005 Annotated Bibliography of the Literature on Resource Sharing Computer Networks Robert P. Blanc,1973 Real-Time Environmental Monitoring Miguel F. Acevedo,2023-09-29 Written 10 years after the publication of the first edition this updated edition of Real Time Environmental Monitoring Sensors and Systems introduces the fundamentals of environmental monitoring based on electronic sensors instruments systems and software that allow continuous and long term ecological and environmental data collection It accomplishes two objectives explains how to use sensors for building more complex instruments systems and databases and introduces a variety of sensors and systems employed to measure environmental variables in air water soils vegetation canopies and wildlife observation and tracking This second edition is thoroughly updated in every aspect of technology and data and each theoretical chapter is taught parallel with a hands on application lab manual Emphasizes real time monitoring as an emerging area for environmental assessment and compliance and covers the fundamentals on how to develop sensors and systems Presents several entirely new topics not featured in the first edition including remote sensing and GIS machine learning weather radar and satellites groundwater monitoring spatial analysis and habitat monitoring Includes applications to many environmental and ecological systems Uses a practical hands on approach with the addition of an accompanying lab manual which students can use to deepen their understanding based on the author s 40 years of academic experience Intended for upper level undergraduate and graduate students taking courses in civil and environmental engineering electrical engineering mechanical engineering geosciences and environmental sciences as well as professionals working in environmental services and researchers and academics in engineering Information Communication Technologies Craig Van Slyke,2008 Information Communication Technologies Concepts Methodologies Tools and Applications is the essential compilation of breaking research in the pivotal areas of social adaptation to information technology This all inclusive reference source examines through case studies empirical analysis and conceptual models the successes and consequences associated with the growth of information communication technologies in the world today *Scientific and Technical Aerospace Reports* ,1977 **The Handbook of Computer Networks, Key Concepts, Data Transmission, and Digital and Optical Networks** Hossein Bidgoli,2008 A complete and in depth introduction to computer networks and networking In this first volume of The Handbook of Computer Networks readers will get a complete overview

of the key concepts of computers networks data transmission and digital and optical networks Providing a comprehensive examination of computer networks the book is designed for both undergraduate students and professionals working in a variety of computer network dependent industries With input from over 270 experts in the field the text offers an easy to follow progression through each topic and focuses on fields and technologies that have widespread application in the real world

Computers, Control & Information Theory, 1986 Guide to TCP/IP Laura A. Chappell, Ed Tittel, 2004 This text provides a comprehensive hands on look at TCP IP It includes coverage of the latest TCP IP stack implementations in Windows XP 2003 and 2000 as well as coverage of Ipv6 and SMTP Practice skills as they are learned with extensive hands on projects in depth case projects and review questions in each chapter Accompanying CD ROM contains a trial version of EtherPeek protocol analyzer software and sample protocol traces giving users direct hands on practice diagnosing protocol traces

Forthcoming Books Rose Arny, 2004 Mike Meyers' A+ Guide to Operating Systems Lab Manual Michael Meyers, Lloyd Jeffries, 2004 This textbook is intended for students of AS degrees in computing information systems or information technology who are studying to become PC technicians or desktop support specialists It contains over 40 labs to challenge students to solve real world problems with learned concepts

Principles of Computer Security, Fourth Edition Wm. Arthur Conklin, Greg White, Chuck Cothren, Roger L. Davis, Dwayne Williams, 2016-01-01 Written by leading information security educators this fully revised full color computer security textbook covers CompTIA's fastest growing credential CompTIA Security Principles of Computer Security Fourth Edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color design In addition to teaching key computer security concepts the textbook also fully prepares you for CompTIA Security exam SY0 401 with 100% coverage of all exam objectives Each chapter begins with a list of topics to be covered and features sidebar exam and tech tips a chapter summary and an end of chapter assessment section that includes key term multiple choice and essay quizzes as well as lab projects Electronic content includes CompTIA Security practice exam questions and a PDF copy of the book Key features CompTIA Approved Quality Content CAQC Electronic content features two simulated practice exams in the Total Tester exam engine and a PDF eBook Supplemented by Principles of Computer Security Lab Manual Fourth Edition available separately White and Conklin are two of the most well respected computer security educators in higher education Instructor resource materials for adopting instructors include Instructor Manual PowerPoint slides featuring artwork from the book and a test bank of questions for use as quizzes or exams Answers to the end of chapter sections are not included in the book and are only available to adopting instructors Learn how to Ensure operational organizational and physical security Use cryptography and public key infrastructures PKIs Secure remote access wireless networks and virtual private networks VPNs Authenticate users and lock down mobile devices Harden network devices operating systems and applications Prevent network attacks such as denial of service spoofing hijacking and

password guessing Combat viruses worms Trojan horses and rootkits Manage e mail instant messaging and web security
Explore secure software development requirements Implement disaster recovery and business continuity measures Handle
computer forensics and incident response Understand legal ethical and privacy issues *1982 Scientific Conference, June
16-18, Lincolnshire, Illinois ,1982*

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