

# NETWORK SIMULATION EXPERIMENTS MANUAL

Prepared by Professor Emad Aboelela

# Computer Networks

FIFTH EDITION

a systems approach

**MK**  
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# Network Simulation Experiments Manual

**Thomas Magedanz, Athanasius  
Gavras, Huu Thanh Nguyen, Jeffrey S.  
Chase**



## **Network Simulation Experiments Manual:**

*Network Simulation Experiments Manual* Emad Aboelela, 2011-04-13 *Network Simulation Experiments Manual* Third Edition is a practical tool containing detailed simulation based experiments to help students and professionals learn about key concepts in computer networking. It allows the networking professional to visualize how computer networks work with the aid of a software tool called OPNET to simulate network function. OPNET provides a virtual environment for modeling, analyzing, and predicting the performance of IT infrastructures including applications, servers, and networking technologies. It can be downloaded free of charge and is easy to install. The book's simulation approach provides a virtual environment for a wide range of desirable features such as modeling a network based on specified criteria and analyzing its performance under different scenarios. The experiments include the basics of using OPNET, IT Guru Academic Edition, operation of the Ethernet network, partitioning of a physical network into separate logical networks using virtual local area networks (VLANs) and the basics of network design. Also covered are congestion control algorithms implemented by the Transmission Control Protocol (TCP), the effects of various queuing disciplines on packet delivery and delay for different services, and the role of firewalls and virtual private networks (VPNs) in providing security to shared public networks. Each experiment in this updated edition is accompanied by review questions, a lab report, and exercises. Networking designers and professionals as well as graduate students will find this manual extremely helpful. Updated and expanded by an instructor who has used OPNET simulation tools in his classroom for numerous demonstrations and real world scenarios. Software download based on an award winning product made by OPNET Technologies Inc whose software is used by thousands of commercial and government organizations worldwide and by over 500 universities. Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products i.e. Cisco routers. Covers the core networking topologies and includes assignments on Switched LANs, Network Design, CSMA, RIP, TCP, Queuing Disciplines, Web Caching etc. *Network Simulation Experiments Manual, 2e* Emad Aboelela, 2008-01-01 **The**

**Illustrated Network** Walter Goralski, 2009-10-01 In 1994 W. Richard Stevens and Addison Wesley published a networking classic *TCP/IP Illustrated*. The model for that book was a brilliant, unfettered approach to networking concepts that has proven itself over time to be popular with readers of beginning to intermediate networking knowledge. *The Illustrated Network* takes this time honored approach and modernizes it by creating not only a much larger and more complicated network but also by incorporating all the networking advancements that have taken place since the mid 1990s which are many. This book takes the popular Stevens approach and modernizes it employing 2008 equipment, operating systems, and router vendors. It presents an illustrated explanation of how TCP/IP works with consistent examples from a real working network configuration that includes servers, routers, and workstations. Diagnostic traces allow the reader to follow the discussion with unprecedented clarity and precision. True to the title of the book, there are 330 diagrams and screen shots as

well as topology diagrams and a unique repeating chapter opening diagram Illustrations are also used as end of chapter questions A complete and modern network was assembled to write this book with all the material coming from real objects connected and running on the network not assumptions Presents a real world networking scenario the way the reader sees them in a device agnostic world Doesn't preach one platform or the other Here are ten key differences between the two Stevens Goralski's Older operating systems AIX svr4 etc Newer OSs XP Linux FreeBSD etc Two routers Cisco Telebit obsolete Two routers M series J series Slow Ethernet and SLIP link Fast Ethernet Gigabit Ethernet and SONET SDH links modern Tcpdump for traces Newer better utility to capture traces Ethereal now has a new name No IPsec IPsec No multicast Multicast No router security discussed Firewall routers detailed No Web Full Web browser HTML consideration No IPv6 IPv6 overview Few configuration details More configuration details ie SSH SSL MPLS ATM FR consideration wireless LANS OSPF and BGP routing protocols New Modern Approach to Popular Topic Adopts the popular Stevens approach and modernizes it giving the reader insights into the most up to date network equipment operating systems and router vendors Shows and Tells Presents an illustrated explanation of how TCP/IP works with consistent examples from a real working network configuration that includes servers routers and workstations allowing the reader to follow the discussion with unprecedented clarity and precision Over 330 Illustrations True to the title there are 330 diagrams screen shots topology diagrams and a unique repeating chapter opening diagram to reinforce concepts Based on Actual Networks A complete and modern network was assembled to write this book with all the material coming from real objects connected and running on the network bringing the real world not theory into sharp focus

*Wireless Networking* Anurag Kumar,D. Manjunath,Joy Kuri,2008-05-09 Over the past decade the world has witnessed an explosion in the development and deployment of new wireless network technologies From cellular mobile telephony to the ubiquitous WiFi networks in coffee shops and airports to the emerging WiMAX wireless broadband access networks the menu of wireless access systems has become so comprehensive that wireline access to user devices may soon become a relic of the past Wireless Networking serves as a one stop view of cellular WiFi and WiMAX networks as well as the emerging wireless ad hoc and sensor networks Rather than provide descriptive accounts of these technologies and standards the book emphasizes conceptual perspectives on the modeling analysis design and optimization of such networks Furthermore the authors present wireless networking within the unifying framework of resource allocation using simple abstractions of the underlying physical wireless communication In short Wireless Networking is an in depth exhaustive and invaluable asset to anyone working in this rapidly evolving field Goes beyond descriptive and qualitative treatments by presenting the foundations underlying the various wireless networking technologies Provides abstractions models and analyses of established and emerging wireless networks thereby supplying the reader with a conceptual and quantitative treatment thus ensuring longevity of the learning from this material Aids comprehension by including over 120 figures four appendices on the mathematics of the various models several inline

exercises and extensive problem sets at the end of each chapter      *Testbeds and Research Infrastructures, Development of Networks and Communities* Thomas Magedanz, Athanasius Gavras, Huu Thanh Nguyen, Jeffrey S. Chase, 2010-12-15 This book constitutes the proceedings of the 6th International ICST Conference TridentCom 2010 held in Berlin Germany in May 2010 Out of more than 100 submitted contributions the Program Committee finally selected 15 full papers 26 practices papers and 22 posters They focus on topics as Internet testbeds future Internet research wireless sensors media and mobility and monitoring in large scale testbeds      Performance Analysis of Computer Networks Matthew N.O. Sadiku, Sarhan M. Musa, 2013-10-02 This book covers performance analysis of computer networks and begins by providing the necessary background in probability theory random variables and stochastic processes Queuing theory and simulation are introduced as the major tools analysts have access to It presents performance analysis on local metropolitan and wide area networks as well as on wireless networks It concludes with a brief introduction to self similarity Designed for a one semester course for senior year undergraduates and graduate engineering students it may also serve as a fingertip reference for engineers developing communication networks managers involved in systems planning and researchers and instructors of computer communication networks      The Virtual Battlefield: Perspectives on Cyber Warfare Christian Czosseck, 2009-10-15 All political and military conflicts now have a cyber dimension the size and impact of which are difficult to predict Internet enabled propaganda espionage and attacks on critical infrastructure can target decision makers weapons systems and citizens in general during times of peace or war Traditional threats to national security now have a digital delivery mechanism which would increase the speed diffusion and power of an attack There have been no true cyber wars to date but cyber battles of great consequence are easy to find This book is divided into two sections Strategic Viewpoints and Technical Challenges Solutions and highlights the growing connection between computer security and national security      **MPLS: Next Steps** Bruce S. Davie, Adrian Farrel, 2008-06-11 Multiprotocol Label Switching MPLS is a data plane and control technology that is used in packet that is Internet Protocol networks Now over ten years old it has taken root firmly as a fundamental tool in many service provider networks The last ten years have seen a considerable consolidation of MPLS techniques and protocols This has resulted in the abandoning of some of the original features of MPLS and the development of other new features MPLS has moved from a prospective solution to a grown up technology Now that MPLS has reached this level of maturity these new tools and features allow more sophisticated services to the users of the network These tools and features are discussed within various contexts throughout several networking related books published by MK and this presents us with a unique publishing opportunity The proposed book is a best of the best collection of existing content from several books MK has published in recent years on MPLS technology multi label protocol switching Individual chapters on MPLS technology are derived from a handful of MK books and are combined in one new volume in a way that makes sense as a reference work for those interested in new and developing aspects of this technology i e network operators and designers

who need to determine which aspects of their networks would benefit from MPLS technology and applications. It also serves as a definitive reference for engineers implementing MPLS based products. This book represents a quick and efficient way to bring valuable content together from leading experts in the field while creating a one stop shopping opportunity for customers to receive the information they would otherwise need to round up from separate sources. Suitable and current content will be collected from the following titles: Evans Deploying IP and MPLS QoS 2006 Farrel GMPLS 2005 Ash Traffic Engineering 2006 Vasseur Network Recovery 2005 Farrel The Internet and Its Protocols 2004 Nadeau MPLS Management 2003 and Davie MPLS Technology and Applications 2000. These chapters will be updated where necessary and two new chapters will be added at the beginning and the end of the book to bring the content into focus and discuss next generation developments. Coverage of major applications of MPLS such as traffic engineering, VPNs, IP integration, GMPLS and QoS written by leading experts in the field contributes to your practical knowledge of this key technology. Shows you how to implement various MPLS applications that will result in saving your organization time and money. Shows you how you can evaluate MPLS applications and techniques in relation to one another so you can develop an optimum network design.

Computer Network Simulation Using NS2 Ajit Kumar Nayak, Satyananda Champati Rai, Rajib Mall, 2016-08-19. Computer Network Simulations Using NS2 provides a solid foundation of computer networking knowledge and skills covering everything from simple operating system commands to the analysis of complex network performance metrics. The book begins with a discussion of the evolution of data communication techniques and the fundamental issues associated with performance evaluation. After presenting a preliminary overview of simulation and other performance evaluation techniques, the authors describe a number of computer network protocols and TCP/IP and OSI models highlighting the networking devices used. Explain a socket and its use in network programming fostering the development of network applications using C and socket API. Introduce the NS2 network simulator exhibiting its internal architecture, constituent software packages and installation in different operating systems. Delve into simulation using NS2 elaborating on the use of Tcl and OTcl scripts as well as AWK scripting and plotting with Gnuplot. Show how to simulate wired and wireless network protocols step by step layer by layer. Explore the idea of simulating very large networks identifying the challenges associated with measuring and graphing the various network parameters. Include nearly 90 example programs, scripts and outputs along with several exercises requiring application of the theory and programming. Computer Network Simulations Using NS2 emphasizes the implementation and simulation of real world computer network protocols affording readers with valuable opportunities for hands on practice while instilling a deeper understanding of how computer network protocols work. **Internet**

**Multimedia Communications Using SIP** Rogelio Martinez Perea, 2008-02-27. Session Initiation Protocol (SIP) was conceived in 1996 as a signaling protocol for inviting users to multimedia conferences. With this development the next big Internet revolution silently started. That was the revolution which would end up converting the Internet into a total communication

system which would allow people to talk to each other see each other work collaboratively or send messages in real time Internet telephony and in general Internet multimedia is the new revolution today and SIP is the key protocol which allows this revolution to grow The book explains in tutorial fashion the underlying technologies that enable real time IP multimedia communication services in the Internet voice video presence instant messaging online picture sharing white boarding etc Focus is on session initiation protocol SIP but also covers session description protocol SDP Real time transport protocol RTP and message session relay protocol MSRP In addition it will also touch on other application related protocols and refer to the latest research work in IETF and 3GPP about these topics 3GPP stands for third generation partnership project which is a collaboration agreement between ETSI Europe ARIB TTC Japan CCSA China ATIS North America and TTA South Korea The book includes discussion of leading edge theory which is key to really understanding the technology accompanied by Java examples that illustrate the theoretical concepts Throughout the book in addition to the code snippets the reader is guided to build a simple but functional IP soft phone therefore demonstrating the theory with practical examples This book covers IP multimedia from both a theoretical and practical point of view focusing on letting the reader understand the concepts and put them into practice using Java It includes lots of drawings protocol diagrams UML sequence diagrams and code snippets that allow the reader to rapidly understand the concepts Focus on HOW multimedia communications over the Internet works to allow readers to really understand and implement the technology Explains how SIP works including many programming examples so the reader can understand abstract concepts like SIP dialogs SIP transactions etc It is not focused on just VoIP It looks At a wide array of enhanced communication services related to SIP enabling the reader put this technology into practice Includes nearly 100 references to the latest standards and working group activities in the IETF bringing the reader completely up to date Provides a step by step tutorial on how to build a basic though functional IP soft phone allowing the reader to put concepts into practice For advanced readers the book also explains how to build a SIP proxy and a SIP registrar to enhance one's expertise and marketability in this fast moving area

**Conference on Communication Networks and Distributed Systems Modeling and Simulation (CNDS '97), January 12-15, 1997, Sheraton Crescent Hotel, Phoenix, Arizona** Lionel M. Ni, Taieb F. Znati, 1997 *An Analytic Approach to the Design of Survivable Optical Mesh Networks* Manish Bhardwaj, 2007 *American Book Publishing Record*, 2004 *Computer Communications Networks*, 1978 **Transportation Research Record**, 1997 *Proceedings - Compcon*, 1978 *Forum Papers*, 1984 **Enabling Technologies for Simulation Science VIII** Dawn A. Trevisani, Alex F. Sisti, 2004 *Proceedings of SPIE* present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields *Proceedings of SPIE* are among the most cited references in patent literature *Canadian Journal of Civil Engineering*, 1993 Computer Networks LAB MANUAL (A Complete Lab Experiments with Programmable Solutions) Na

Vikraman,2019-10-04 This course provides students with hands on training regarding the design troubleshooting modeling and evaluation of computer networks In this course students are going to experiment in a real test bed networking environment and learn about network design and troubleshooting topics and tools such as network addressing Address Resolution Protocol ARP basic troubleshooting tools e g ping ICMP IP routing e g RIP route discovery e g traceroute TCP and UDP IP fragmentation and many others Student will also be introduced to the network modeling and simulation and they will have the opportunity to build some simple networking models using the tool and perform simulations that will help them evaluate their design approaches and expected network performance



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## **Table of Contents Network Simulation Experiments Manual**

1. Understanding the eBook Network Simulation Experiments Manual
  - The Rise of Digital Reading Network Simulation Experiments Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Network Simulation Experiments Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Network Simulation Experiments Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Network Simulation Experiments Manual
  - Personalized Recommendations
  - Network Simulation Experiments Manual User Reviews and Ratings

- Network Simulation Experiments Manual and Bestseller Lists
- 5. Accessing Network Simulation Experiments Manual Free and Paid eBooks
  - Network Simulation Experiments Manual Public Domain eBooks
  - Network Simulation Experiments Manual eBook Subscription Services
  - Network Simulation Experiments Manual Budget-Friendly Options
- 6. Navigating Network Simulation Experiments Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Network Simulation Experiments Manual Compatibility with Devices
  - Network Simulation Experiments Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Network Simulation Experiments Manual
  - Highlighting and Note-Taking Network Simulation Experiments Manual
  - Interactive Elements Network Simulation Experiments Manual
- 8. Staying Engaged with Network Simulation Experiments Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Network Simulation Experiments Manual
- 9. Balancing eBooks and Physical Books Network Simulation Experiments Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Network Simulation Experiments Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Network Simulation Experiments Manual
  - Setting Reading Goals Network Simulation Experiments Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Network Simulation Experiments Manual
  - Fact-Checking eBook Content of Network Simulation Experiments Manual
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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