

# NETWORK SIMULATION EXPERIMENTS MANUAL

THIRD EDITION

Prepared by Professor Emad Aboelela

Computer  
Networks



a systems approach  
FIFTH EDITION

**MK**  
MORGAN KAUFMANN

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# Network Simulation Experiments Manual 2003

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**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 Emad Aboelela, 2003. Experiments associated with Computer networks: a systems approach by Larry L. Peterson and Bruce S. Davie, 3rd ed. c2003. The Virtual Battlefield Christian Czosseck, Kenneth Geers, 2009. 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. P 4 of cover. *American Book Publishing Record*, 2004. Wireless Sensor Networks Shafiullah Khan, Al-Sakib Khan Pathan, Nabil Ali Alrajeh, 2016-04-21. Wireless sensor networks (WSNs) utilize fast, cheap, and effective

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