



# Network Simulation Experiments Manual (The Morgan Kaufmann Series in Networking)

*Emad Aboelela*

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Network Simulation Experiments Manual, Third Edition, contains simulation-based experiments to help students and professionals learn about key concepts in computer networking. The 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 included is information on configuring and analyzing the performance of the Routing Information Protocol (RIP) model and the Open Shortest Path First (OSPF) routing protocol; simulating the basic features of an interdomain routing protocol called Border Gateway Protocol (BGP); and simulating mobility in wireless local area networks. In addition, the book covers congestion control algorithms implemented by the Transmission Control Protocol (TCP); the effects of various queuing disciplines on packet delivery and delay for different services; the Resource Reservation Protocol (RSVP); and the role of firewalls and virtual private networks (VPNs) in providing security to shared public networks.

\*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.

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