

e-Books: (c2003-c2013)

- Aboelela, Emad. Network simulation experiments manual. Morgan Kaufmann, c2003. <http://www.sciencedirect.com/science/book/9780120421718>
- Andress, Jason. The basics of information security understanding the fundamentals of InfoSec in theory and practice. Syngress, c2011. <http://www.sciencedirect.com/science/book/9781597496537>
- Beuran, Razvan. Introduction to network emulation. Pan Stanford, 2013. <http://www.crcnetbase.com/isbn/9789814364096>
- Botnets the killer web app. Syngress, c2007. <http://www.sciencedirect.com/science/book/9781597491358>
- Cirincione, Maurizio. Power converters and AC electrical drives with linear neutral networks. CRC Press, c2012. <http://www.crcnetbase.com/isbn/9781439818152>
- Computer and information security handbook. Elsevier, c2009. <http://www.sciencedirect.com/science/book/9780123743541>
- Das, Sajal K. Handbook on securing cyber-physical critical infrastructure foundation and challenges. Morgan Kaufmann, c2012. <http://www.sciencedirect.com/science/book/9780124158153>
- Distributed sensor networks. Chapman and Hall/CRC Press, 2013. <http://www.crcnetbase.com/isbn/9781439862834>
- Distributed sensor networks. CRC Press, 2013. <http://www.crcnetbase.com/isbn/9781439862889>
- Embedded systems and wireless technology. CRC Press, c2012. <http://www.crcnetbase.com/isbn/9781466565654>
- Forouzan, Behrouz A. Data communications and networking. McGraw-Hill, c2007. <http://accessengineeringlibrary.com/browse/data-communications-and-networking-fourth-edition>
- Green communications and networking. CRC Press, 2013. <http://www.crcnetbase.com/isbn/9781439899144>
- Houmkoziis, Christos N. End-to-end adaptive congestion control in TCP/IP networks. CRC Press, 2012. <http://www.crcnetbase.com/isbn/9781439840580>
- Howard, Michael. 24 deadly sins of software security : programming flaws and how to fix them. McGraw-Hill, c2010. <http://accessengineeringlibrary.com/browse/24-deadly-sins-of-software-security-programming-flaws-and-how-to-fix-them>
- Nagios 3 enterprise network monitoring including plug-ins and hardware devices. Syngress, c2008. <http://www.sciencedirect.com/science/book/9781597492676>

e-Books: (c2013-c2013)

- Oki, Eiji. Linear programming and algorithms for communication networks a practical guide to network design, control, and management. CRC Press, 2013. <http://www.crcnetbase.com/isbn/9781466552647>
- Patil, Harsh Kupwade. Security for wireless sensor networks using identity-based cryptography. CRC Press, 2013. <http://www.crcnetbase.com/isbn/9781439869024>
- Sethi, Adarshpal S. The practical OPNET user guide for computer network simulation. CRC Press, c2013. <http://www.crcnetbase.com/isbn/9781439812068>
- Silva, Mario Marques da. Multimedia communications and networking. CRC Press, 2012. <http://www.crcnetbase.com/isbn/9781439874851>
- Ulrich, William M. Information systems transformation architecture-driven modernization case studies. Morgan Kaufmann Object Management Group/Elsevier, c2010. <http://www.sciencedirect.com/science/book/9780123749130>
- Wheeler, Evan. Security risk management building an information security risk management program from the ground up. Syngress, c2011. <http://www.sciencedirect.com/science/book/9781597496155>
- Winkler, J. R. Securing the cloud cloud computer security techniques and tactics. Syngress/Elsevier, 2011. <http://www.sciencedirect.com/science/book/9781597495929>

Disclaimer:

This pathfinder contains suggested materials on computer networks that are available at the College of Engineering Library II. However, some references were not included.

University of the Philippines Diliman COLLEGE OF ENGINEERING LIBRARY II

UP Alumni Engineers Centennial Hall
(Engineering Library & Computer Science Bldg.)
Velasquez St., Diliman, Quezon City
1101 Philippines

Phone: (632) 981-8500 local 3251 to 3252
Fax: (632) 434-8638
Email: library@englib.upd.edu.ph
Website: <http://www.englib.upd.edu.ph>



University of the Philippines Diliman COLLEGE OF ENGINEERING LIBRARY II

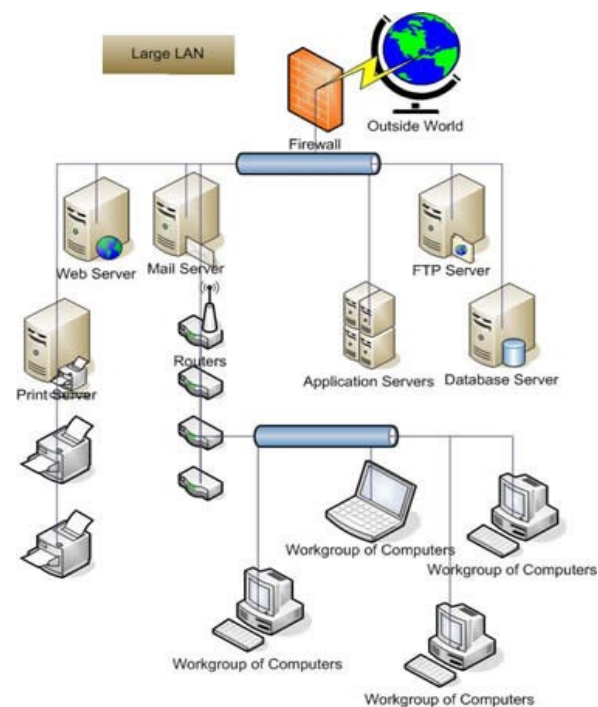


Image URL:
http://www.budapestnetworking.com/Large_LAN_Budapest.jpg

COMPUTER NETWORKS

PATHFINDER



COMPUTER NETWORKS

A computer network is a system for communication among two or more computers.

Computer networks may be categorized with respect to range:

- personal area network (PAN)
 - wireless PAN
- local area network (LAN)
 - wireless LAN
- metropolitan area network (MAN)
- wide area network (WAN)

Computer network applications may be categorized with respect to the functional relationships between components:

- client-server
- multitier architecture
- Peer-to-peer

Computer networks may be categorized with respect to network topologies:

- bus network
- star network
- grid network
- toroidal networks and hypercubes
- tree and hypertree networks

Computer networks may be categorized with respect to specialized functions

- Storage Area Networks
- Server farms
- Process Control Networks

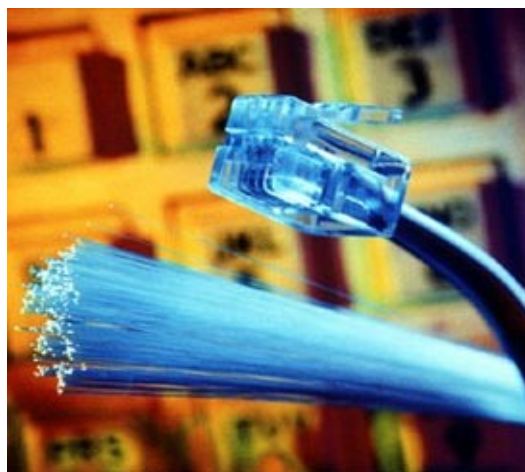
Protocol stacks

Computer networks may be implemented using a variety of protocol stack architectures, computer buses or combinations of media and protocol layers, incorporating one or more of:

ARCNET	DECnet	Ethernet
IP	TCP	UDP
AppleTalk	Token Ring	IPX
FDDI	HIPPI	Myrinet
QsNet	ATM	RS-232
IEEE-488 USB		X.25
Frame relay	Bluetooth	
IEEE 1394 (aka Firewire, iLink)		
IEEE 802.11		
System Network Architecture		

*Source:

http://www.domainsarefree.com/glossary/Computer_network.html



http://www.dtcc.edu/terry/engr/images/programs/photos/network_pic.jpg

Books: (c2012)

Aboelela, Emad. Network simulation experiments manual. Morgan Kaufmann, c2012. TK 5105.5 A26 2012

Carvey, Harlan A. Windows forensic analysis toolkit : advanced analysis techniques for Windows 7. Syngress, c2012. HV 8079 C65 C37 2012

Das, Sajal K. Handbook on securing cyber-physical critical infrastructure : foundation and challenges. Morgan Kaufmann, c2012. TK 5105.59 D37 2012

Easttom, Chuck. Computer security fundamentals. Pearson, c2012. QA 76.9 A25 E27 2012

Forouzan, Behrouz A. Computer networks : a top-down approach. McGraw-Hill, c2012. TK 5105.5 F66 2012

Lin, Ying-Dar. Computer networks : an open source approach. McGraw-Hill, c2012. TK 5105.5 L56 2012

Peterson, Larry L. Computer networks : a systems approach. Morgan Kaufmann, c2012. TK 5105.5 P48 2012

Self-organizing networks : self-planning, self-optimization and self-healing for GSM, UMTS, and LTE. Wiley, 2012. TK 5103.2 S45 2012

Shneidewind, Norman. Computer, network, software, and hardware engineering with applications. Wiley, 2012. TK 7885 S56 2012

Simulation in computer network design and modeling : use and analysis. Information Science Reference, c2012. TK 5105.7 S57 2012

Smoot, Stephen R. Private cloud computing : consolidation, virtualization, and service-oriented infrastructure. Morgan Kaufmann Elsevier, c2012. QA 76.585 S66 2012

Stevens, W. Richard. TCP/IP illustrated. Pearson, c2012. TK 5105.55 S74 2012

Sullivan, Bryan. Web application security : a beginner's guide. McGraw-Hill, c2012. TK 5105.59 S85 2012

Whitman, Michael E. Principles of information security. Course Technology, Cengage Learning, c2012. TK 5105.59 W55 2012